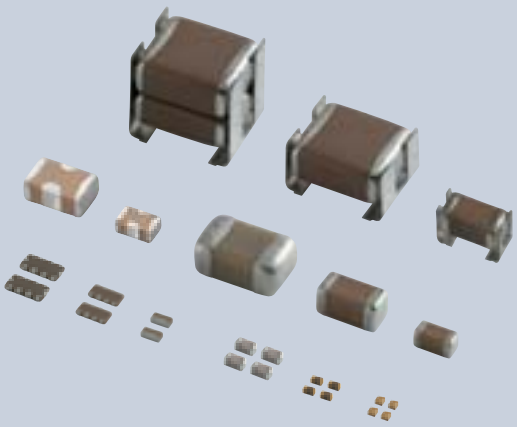
# THE DATASHEET OF

# GRM1555C1H180FZ01D

C02E.pdf
Nov.27,2017

muRata
INNOVATOR IN ELECTRONICS

# Chip Multilayer Ceramic Capacitors for General

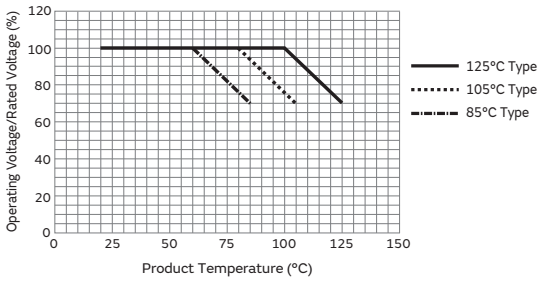
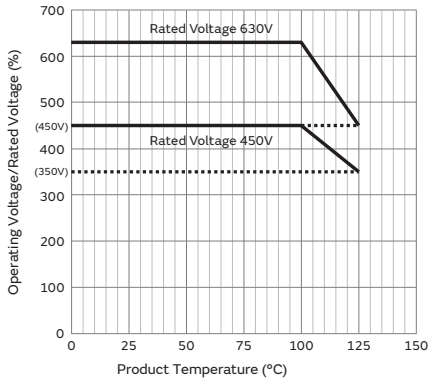
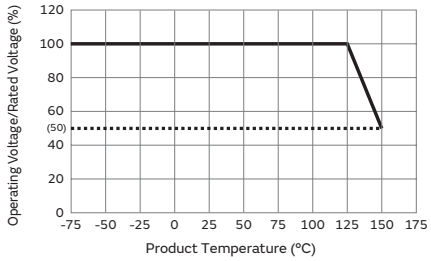


2018

# Explanation of Symbols in This Catalog

| | |
|---|---|
| WEB | Links are provided to the latest information from the PDF version of the catalog, which is available on the web. |

| | |
|---|---|
| General | For applications that do not require the particular reliability such as the general equipment |
| Info-tainment | Infotainment for Automotive<br>The product for entertainment equipment like car navigations, car audios, and body control equipment like wipers, power windows. |
| Power-train | Powertrain/Safety for Automotive<br>Product used for applications (running, turning, stopping and safety devices) which particularly concern human life, such as in devices for automobiles. |
| Medical Device | Medical-grade products for Implanted Medical Devices<br>These products are intended for use in implanted medical devices such as cardiac pacemakers, cochlear implants, insulin pumps and gastric electrostimulators.<br>They are suitable for use in non-critical circuits. *1<br>*1 Non-critical circuits<br>This term refers to circuits in implanted medical devices that are not directly linked to life support, i.e. circuits that will not directly endanger the life of the patient should the functionality of the device be reduced or halted by failure of the circuit. |
| AEC-Q200 | AEC-Q200 compliant product |
| Safety standard | Safety Standard Certified Product<br>Products that acquired safety standard certification IEC60384-14 and products based on the Electrical Appliance and Material Safety Law of Japan. |
| Japanese Safety Law | Based on the Electrical Appliance and Material Safety Law of Japan<br>Products that are based on the electrical appliance and material safety law of Japan. |
| High Q | Low dissipation for high frequency<br>By devising ceramic materials and electrode materials, low dissipation is achieved in frequency bands of VHF, UHF and microwave or beyond. |
| Low ESL | Low inductance<br>This capacitor is designed so that the parasitic inductance component (ESL) that the capacitor has on the high frequency side becomes lower. |
| Fail safe | Fail safe product<br>This capacitor is designed to prevent failures as much as possible by short mode. |
| Deflecting crack | Product resistant to deflection cracking<br>This capacitor is designed to prevent failures as much as possible by short mode caused by cracking when there is board deflection. |
| Soldering crack | Product with solder cracking suppression<br>"This capacitor is configured with metal terminals and leads connected to the chip. The metal terminals and leads relieve the stress from expansion and contraction of the solder, to suppress solder cracking." |
| Anti-noise | Product suitable for acoustic noise reduction and low distortion<br>This product suppresses acoustic noise, which occurs when a ceramic capacitor is used, by devising the materials and configuration. |
| Effective Cap | No DC bias characteristics<br>Polymer capacitor is no capacitance change with DC bias due to aluminum oxidized film for dielectric. |
| EMI FIL® | Low-inductance product suitable for noise suppression.<br>This product has extremely low ESL and is suitable for suppression of noise, including high frequencies.<br>This product can also be used as a low-ESL, high-performance bypass capacitor. |
| Bonding | Product for bonding<br>Since gold is used for the external electrodes, the capacitor can be mounted by die bonding/wire bonding. |

| | |
|---|---|
| D1 Derating 1 | Derating 1<br>This product is suitable when a voltage continuously applied to a capacitor in an operating circuit, is used below (derated) the rated voltage of the capacitor. This model guarantees the test conditions in the endurance test, at a rated voltage x 100% at the maximum operating temperature. A reliability assurance level equivalent to a common product can be secured, by using this product within the voltage and temperature derated conditions recommended in the figure below.<br>Recommended Conditions of the Derating Operating Voltage and Temperature<br>  |
| D2 Derating 2 | Derating 2<br>When the product temperature exceeds 105°C, please use this product within the voltage and temperature derated conditions in the figure below.<br>  |
| D3 Derating 3 | Derating 3<br>Please apply the derating curve according to the operating temperature.<br>Please refer to detailed specifications sheet for details. |
| D4 Derating 4 | Derating 4<br>When the product temperature exceeds 125°C, please use this product within the voltage and temperature derated conditions in the figure below.<br>  |
| D5 Derating 5 | Derating 5<br>Please apply the rated voltage derating over 150 °C.<br>Please refer to detailed specifications sheet for details. |

# Selection Guide for Capacitors

## For general

### SMD

#### Solder mounting

##### Chip type

| | | |
|---|---|---|
| GRM | | p40 |
| GRM | For LCD backlight inverter circuit only | WEB |
| GR3 (Anti-noise) | High effective capacitance & high ripple current | p109 |
| GRJ (Deflecting crack) | Soft termination | p120 |
| GXM (Water Repellent) | | WEB |
| GR4 | For information devices only | p125 |
| GR7 | For camera flash circuit only | p130 |
| GJM (High Q) | | p135 |
| GQM (High Q) | High power | p164 |
| GA2 (Japanese Safety Law) | Based on the Electrical Appliance and Material Safety Law of Japan | p184 |
| GA3 (Safety standard) | | p189 |
| LLL (Low ESL) | LW reversed | p219 |
| LLA (Low ESL) | 8 terminals | p222 |
| LLM (Low ESL) | 10 terminals | p228 |
| LLR (Low ESL) | LW reversed controlled ESR | p232 |
| NFM (Low ESL) | 3 terminals | p236 |
| GJ4 (Anti-noise) | Low distortion | WEB |
| GJ8 (Anti-noise) | Low acoustic noise | WEB |

##### On interposer board

| | | |
|---|---|---|
| ZRA (Anti-noise) | | WEB |
| ZRB (Anti-noise) | | WEB |

##### Metal terminal type

| | | |
|---|---|---|
| KRM (Anti-noise, Deflecting crack, Soldering crack) | | p239 |
| KR3 (Anti-noise, Deflecting crack, Soldering crack) | High effective capacitance & high ripple current | p243 |

##### Resin molding SMD type

| | | |
|---|---|---|
| DK1 (Safety standard) | | WEB |

#### Wire bonding mounting

##### Chip type

| | | |
|---|---|---|
| GMA | Microchip | p249 |
| GMD | | p256 |

### Lead type

#### Solder mounting

| | | |
|---|---|---|
| RDE (Anti-noise, Deflecting crack, Soldering crack) | | WEB |
| DEH | High temperature low loss | WEB |
| DEA | High temperature Class 1 | WEB |
| DEB | Class 2 | WEB |
| DEC | | WEB |
| DEF | For LCD backlight inverter circuit only | WEB |
| DHR (Ultrahigh-voltage, Deflecting crack, Soldering crack) | | WEB |
| DEJ (Japanese Safety Law) | Based on the Electrical Appliance and Material Safety Law of Japan | WEB |
| DE1 (Safety standard) | X1/Y1 Class certified product | WEB |
| DE2 (Safety standard) | X1/Y2 Class certified product | WEB |

### Screw termination mounting

| | | |
|---|---|---|
| DHS (Ultrahigh-voltage) | | WEB |
| DHK (Ultrahigh-voltage) | High voltage AC rated | WEB |

## Infotainment for automotive

### SMD

#### Solder mounting

##### Chip type

| | | |
|---|---|---|
| GRT | | WEB |

## Powertrain/Safety for automotive

### SMD

#### Solder mounting

##### Chip type

| | | |
|---|---|---|
| GCM | | WEB |
| GC3 (Anti-noise) | High effective capacitance & high ripple current | WEB |
| GCJ (Fail safe, Deflecting crack) | Soft termination | WEB |
| GGM (Water Repellent) | | WEB |
| GCQ (High Q) | | WEB |
| GCD (Fail safe, Deflecting crack) | MLSC design | WEB |
| GCE (Fail safe, Deflecting crack) | Soft termination MLSC design | WEB |
| GGD (Fail safe, Deflecting crack, Water Repellent) | MLSC design | WEB |
| NFM (Low ESL) | 3 terminals | WEB |

##### Metal terminal type

| | | |
|---|---|---|
| KCM (Anti-noise, Deflecting crack, Soldering crack) | | WEB |
| KC3 (Anti-noise, Deflecting crack, Soldering crack) | High effective capacitance & high ripple current | WEB |
| KCA (Safety standard, Anti-noise, Deflecting crack, Soldering crack) | | WEB |

#### Limited to Conductive Glue Mounting

##### Chip type

| | | |
|---|---|---|
| GCB (Deflecting crack, Soldering crack) | Ni plating + Pd plating termination conductive glue mounting | WEB |
| GCG (Deflecting crack, Soldering crack) | AgPd termination conductive glue mounting | WEB |

### Lead type

#### Solder mounting

| | | |
|---|---|---|
| RCE (Anti-noise, Deflecting crack, Soldering crack) | | WEB |
| RHE (Anti-noise, Deflecting crack, Soldering crack) | 150°C operation leaded | WEB |
| RHS (Anti-noise, Deflecting crack, Soldering crack) | 200°C operation leaded | WEB |
| DE6 (Safety standard) | | WEB |

## Medical-grade products for implanted medical devices

### SMD

#### Solder mounting

##### Chip type

| | | |
|---|---|---|
| GCH | | WEB |

## Part Numbering

### Chip Multilayer Ceramic Capacitors for General

WEB

(Part Number)

| GR | M | 18 | 8 | B1 | 1H | 102 | K | A01 | D |
|---|---|---|---|---|---|---|---|---|---|
| ❶ | ❷ | ❸ | ❹ | ❺ | ❻ | ❼ | ❽ | ❾ | ❿ |

❶Product ID ❷Series

| Product ID | Code | Series |
|---|---|---|
| GA | 2 | Based on the Electrical Appliance and Material Safety Law of Japan Chip Multilayer Ceramic Capacitors for General Purpose |
| | 3 | Safety Standard Certified Chip Multilayer Ceramic Capacitors for General Purpose |
| GJ | M | High Q Chip Multilayer Ceramic Capacitors for General Purpose |
| GM | A | Wire Bonding Mount Multilayer Microchip Capacitors for General Purpose |
| | D | Wire Bonding/AuSn Soldering Mount Chip Multilayer Ceramic Capacitors for General Purpose |
| GQ | M | High Q and High Power Chip Multilayer Ceramic Capacitors for General Purpose |
| GR | 3 | High Effective Capacitance & High Ripple Current Chip Multilayer Ceramic Capacitors for General Purpose |
| | 4 | Chip Multilayer Ceramic Capacitors for Camera Flash Circuit only |
| | 7 | Chip Multilayer Ceramic Capacitors for Ethernet LAN and Primary-secondary Coupling of DC-DC Converters |
| | J | Soft Termination Chip Multilayer Ceramic Capacitors for General Purpose |
| | M | Chip Multilayer Ceramic Capacitors for General Purpose |
| KR | 3 | High Effective Capacitance & High Allowable Ripple Current Metal Terminal Type Multilayer Ceramic Capacitors for General Purpose |
| | M | Metal Terminal Type Multilayer Ceramic Capacitors for General Purpose |
| LL | A | 8 Terminals Low ESL Chip Multilayer Ceramic Capacitors for General Purpose |
| | L | LW Reversed Low ESL Chip Multilayer Ceramic Capacitors for General Purpose |
| | M | 10 Terminals Low ESL Chip Multilayer Ceramic Capacitors for General Purpose |
| | R | LW Reversed Controlled ESR Low ESL Chip Multilayer Ceramic Capacitors for General Purpose |

❸Chip Dimensions (LxW)

| Code | Dimensions (LxW) | EIA |
|---|---|---|
| 02 | 0.4x0.2mm | 01005 |
| 0D | 0.38x0.38mm | 015015 |
| 03 | 0.6x0.3mm | 0201 |
| 05 | 0.5x0.5mm | 0202 |
| 08 | 0.8x0.8mm | 0303 |
| 1U | 0.6x1.0mm | 02404 |
| 15 | 1.0x0.5mm | 0402 |
| 18 | 1.6x0.8mm | 0603 |
| 21 | 2.0x1.25mm | 0805 |
| 22 | 2.8x2.8mm | 1111 |
| 31 | 3.2x1.6mm | 1206 |
| 32 | 3.2x2.5mm | 1210 |
| 42 | 4.5x2.0mm | 1808 |
| 43 | 4.5x3.2mm | 1812 |
| 52 | 5.7x2.8mm | 2211 |
| 55 | 5.7x5.0mm | 2220 |

Continued on the following page.↗

(Part Number)

| GR | M | 18 | 8 | B1 | 1H | 102 | K | A01 | D |
|---|---|---|---|---|---|---|---|---|---|
| ❶ | ❷ | ❸ | ❹ | ❺ | ❻ | ❼ | ❽ | ❾ | ❿ |

Continued from the preceding page. ↘

❹Height Dimension (T) (Except **KR**□)

| Code | Dimension (T) |
|---|---|
| 2 | 0.2mm |
| 3 | 0.3mm |
| 4 | 0.4mm |
| 5 | 0.5mm |
| 6 | 0.6mm |
| 7 | 0.7mm |
| 8 | 0.8mm |
| 9 | 0.85mm |
| A | 1.0mm |
| B | 1.25mm |
| C | 1.6mm |
| D | 2.0mm |
| E | 2.5mm |
| M | 1.15mm |
| Q | 1.5mm |
| X | Depends on individual standards. |

❹Height Dimension (T) (**KR**□ Only)

| Code | Dimension (T) |
|---|---|
| E | 1.8mm |
| F | 1.9mm |
| K | 2.7mm |
| L | 2.8mm |
| Q | 3.7mm |
| T | 4.8mm |
| W | 6.4mm |

❺Temperature Characteristics

| Temperature Characteristic Codes | | | Temperature Characteristics | | | Operating Temperature Range | Capacitance Change Each Temperature (%) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Public STD Code | | Reference Temperature | Temperature Range | Capacitance Change or Temperature Coefficient | | −55°C | | *6 | | −10°C | |
| | | | | | | | Max. | Min. | Max. | Min. | Max. | Min. |
| 1X | SL | JIS | 20°C | 20 to 85°C | +350 to −1000ppm/°C | −55 to 125°C | - | - | - | - | - | - |
| 2C | CH | JIS | 20°C | 20 to 125°C | 0±60ppm/°C | −55 to 125°C | 0.82 | −0.45 | 0.49 | −0.27 | 0.33 | −0.18 |
| 3C | CJ | JIS | 20°C | 20 to 125°C | 0±120ppm/°C | −55 to 125°C | 1.37 | −0.9 | 0.82 | −0.54 | 0.55 | −0.36 |
| 3U | UJ | JIS | 20°C | 20 to 85°C | −750±120ppm/°C | −25 to 85°C | - | - | 4.94 | 2.84 | 3.29 | 1.89 |
| 4C | CK | JIS | 20°C | 20 to 125°C | 0±250ppm/°C | −55 to 125°C | 2.56 | −1.88 | 1.54 | −1.13 | 1.02 | −0.75 |
| 5C | C0G | EIA | 25°C | 25 to 125°C | 0±30ppm/°C | −55 to 125°C | 0.58 | −0.24 | 0.4 | −0.17 | 0.25 | −0.11 |
| 5G | X8G | *2 | 25°C | 25 to 150°C | 0±30ppm/°C | −55 to 150°C | 0.58 | −0.24 | 0.4 | −0.17 | 0.25 | −0.11 |
| 7U | U2J | EIA | 25°C | 25 to 125°C *3 | −750±120ppm/°C | −55 to 125°C | 8.78 | 5.04 | 6.04 | 3.47 | 3.84 | 2.21 |
| B1 | B *1 | JIS | 20°C | −25 to 85°C | ±10% | −25 to 85°C | - | - | - | - | - | - |
| B3 | B | JIS | 20°C | −25 to 85°C | ±10% | −25 to 85°C | - | - | - | - | - | - |
| C7 | X7S | EIA | 25°C | −55 to 125°C | ±22% | −55 to 125°C | - | - | - | - | - | - |
| C8 | X6S | EIA | 25°C | −55 to 105°C | ±22% | −55 to 105°C | - | - | - | - | - | - |
| D7 | X7T | EIA | 25°C | −55 to 125°C | +22%, −33% | −55 to 125°C | - | - | - | - | - | - |
| D8 | X6T | EIA | 25°C | −55 to 105°C | +22%, −33% | −55 to 105°C | - | - | - | - | - | - |
| E7 | X7U | EIA | 25°C | −55 to 125°C | +22%, −56% | −55 to 125°C | - | - | - | - | - | - |
| R1 | R *1 | JIS | 20°C | −55 to 125°C | ±15% | −55 to 125°C | - | - | - | - | - | - |
| R6 | X5R | EIA | 25°C | −55 to 85°C | ±15% | −55 to 85°C | - | - | - | - | - | - |
| R7 | X7R | EIA | 25°C | −55 to 125°C | ±15% | −55 to 125°C | - | - | - | - | - | - |
| W0 | X7T | EIA | 25°C | −55 to 125°C | ±10% *4 | −55 to 125°C | - | - | - | - | - | - |
| | | | | | +22%, −33% *5 | | - | - | - | - | - | - |

*1 Capacitance change is specified with 50% rated voltage applied.
*2 Murata Temperature Characteristic Code.
*3 Rated Voltage 100Vdc max: 25 to 85°C
*4 Apply DC350V bias.
*5 No DC bias.
*6 −25°C (Reference Temperature 20°C) / −30°C (Reference Temperature 25°C)

Continued on the following page. ↗

(Part Number)

| GR | M | 18 | 8 | B1 | 1H | 102 | K | A01 | D |
|---|---|---|---|---|---|---|---|---|---|
| ❶ | ❷ | ❸ | ❹ | ❺ | ❻ | ❼ | ❽ | ❾ | ❿ |

Continued from the preceding page. ↘

❻Rated Voltage

| Code | Rated Voltage |
|---|---|
| **0E** | DC2.5V |
| **0G** | DC4V |
| **0J** | DC6.3V |
| **1A** | DC10V |
| **1C** | DC16V |
| **1E** | DC25V |
| **1H** | DC50V |
| **1J** | DC63V |
| **1K** | DC80V |
| **2A** | DC100V |
| **2D** | DC200V |
| **2E** | DC250V |
| **2W** | DC450V |
| **2H** | DC500V |
| **2J** | DC630V |
| **3A** | DC1kV |
| **3D** | DC2kV |
| **3F** | DC3.15kV |
| **BB** | DC350V |
| **E2** | AC250V |
| **GB** | X2; AC250V (Safety Standard Certified Type GB) |
| **GD** | Y3; AC250V (Safety Standard Certified Type GD) |
| **GF** | Y2, X1/Y2; AC250V (Safety Standard Certified Type GF) |
| **YA** | DC35V |

❼Capacitance

Expressed by three-digit alphanumerics. The unit is picofarad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros which follow the two numbers. If there is a decimal point, it is expressed by the capital letter "**R**." In this case, all figures are significant digits.
If any alphabet, other than "**R**", is included, this indicates the specific part number is a non-standard part.

Ex.)

| Code | Capacitance |
|---|---|
| **R50** | 0.50pF |
| **1R0** | 1.0pF |
| **100** | 10pF |
| **103** | 10000pF |

❽Capacitance Tolerance

| Code | Capacitance Tolerance |
|---|---|
| **B** | ±0.1pF |
| **C** | ±0.25pF |
| **D** | ±0.5pF (Less than 10pF) |
| | ±0.5% (10pF and over) |
| **F** | ±1% |
| **G** | ±2% |
| **J** | ±5% |
| **K** | ±10% |
| **M** | ±20% |
| **W** | ±0.05pF |

❾Individual Specification Code (Except **LLR**)

Expressed by three figures.

❾ESR (**LLR** Only)

| Code | ESR |
|---|---|
| **E01** | 100mΩ |
| **E03** | 220mΩ |
| **E05** | 470mΩ |
| **E07** | 1000mΩ |

❿Packaging

| Code | Packaging |
|---|---|
| **L** | ø180mm Embossed Taping |
| **D/E/W** | ø180mm Paper Taping |
| **K** | ø330mm Embossed Taping |
| **J/F** | ø330mm Paper Taping |
| **T** | Bulk Tray |

Please contact us if you find any part number not provided in this table.

Chip Multilayer Ceramic Capacitors for General Purpose

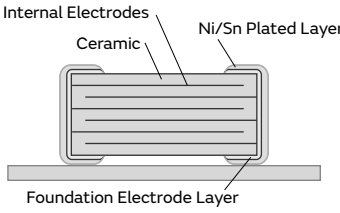
# GRM Series

WEB

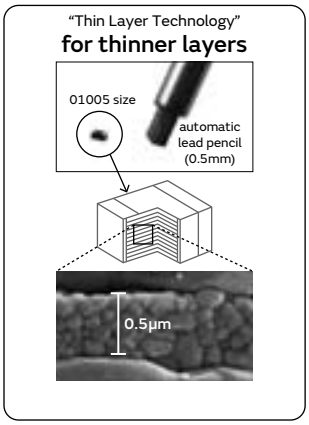
**This is Murata primary products renowned for both small size and large capacitance value with latest advanced technology.**

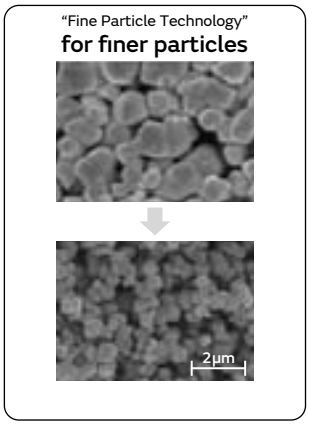
## Features

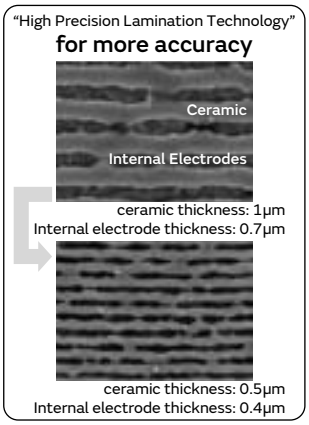
### 1 Achieves large-capacity and small size in a multilayer structure.



<Example of Structure>




### 2 Sn plating is applied to the external electrodes; excellent solderability.

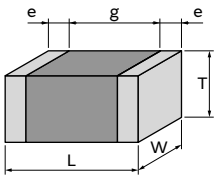
### 3 High reliability with no polarity.

| | Ceramic Capacitors | Tantalum Capacitor | Aluminum Electrolytic Capacitor | Conductive Polymer Capacitor |
|---|---|---|---|---|
| Price | ○ | ○ | ◎ | ○ |
| Comparison between Impedance Frequency Characteristics | ◎ | △ | △ | ○ |
| Capacitance temperature characteristics | ○ | ◎ | ○ | ○ |
| DC breakdown voltage | ◎ | △ | △ | △ |
| Polarity | No | Yes | Yes | Yes |
| Pulse response | ◎ | △ | △ | ○ |
| Allowable ripple current | ◎ | △ | △ | △ |
| Reliability | ◎ | ○ | ○ | ○ |
| DC bias characteristics | △ | ◎ | ◎ | ◎ |

◎: Particularly excellent ○: Excellent △: Inferior

## Specifications

| | |
|---|---|
| Size (mm) | 0.25×0.125mm to 5.7×5.0mm |
| Rated Voltage | 2.5Vdc to 3150Vdc |
| Capacitance | 0.10pF to 330μF |
| Main Applications | 1. Rated voltage 100V Max.<br>High Dielectric Constant Type · · · For decoupling and smoothing circuits<br>Temperature Compensating Type · · · For tuning circuits, oscillating circuits, and high frequency filter circuits<br>2. Rated voltage 200V min.<br>High Dielectric Constant Type · · · For clamp snubber circuits and smoothing circuits<br>Temperature Compensating Type · · · Power supply damper snubber |



<Dimensions>

This catalog contains only a portion of the product lineup.
Please refer to the capacitor search tool on the Murata Web site for details.

# GRM Series Temperature Compensating Type Part Number List

## 0.4×0.2mm

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.22mm | 50Vdc | C0G | 0.20pF | ±0.05pF | GRM0225C1HR20WA03# |
| | | | | ±0.1pF | GRM0225C1HR20BA03# |
| | | | 0.30pF | ±0.05pF | GRM0225C1HR30WA03# |
| | | | | ±0.1pF | GRM0225C1HR30BA03# |
| | | | 0.40pF | ±0.05pF | GRM0225C1HR40WA03# |
| | | | | ±0.1pF | GRM0225C1HR40BA03# |
| | | | 0.50pF | ±0.05pF | GRM0225C1HR50WA03# |
| | | | | ±0.1pF | GRM0225C1HR50BA03# |
| | | | 0.60pF | ±0.05pF | GRM0225C1HR60WA03# |
| | | | | ±0.1pF | GRM0225C1HR60BA03# |
| | | | 0.70pF | ±0.05pF | GRM0225C1HR70WA03# |
| | | | | ±0.1pF | GRM0225C1HR70BA03# |
| | | | 0.80pF | ±0.05pF | GRM0225C1HR80WA03# |
| | | | | ±0.1pF | GRM0225C1HR80BA03# |
| | | | 0.90pF | ±0.05pF | GRM0225C1HR90WA03# |
| | | | | ±0.1pF | GRM0225C1HR90BA03# |
| | | | 1.0pF | ±0.05pF | GRM0225C1H1R0WA03# |
| | | | | ±0.1pF | GRM0225C1H1R0BA03# |
| | | | | ±0.25pF | GRM0225C1H1R0CA03# |
| | | | 1.1pF | ±0.05pF | GRM0225C1H1R1WA03# |
| | | | | ±0.1pF | GRM0225C1H1R1BA03# |
| | | | | ±0.25pF | GRM0225C1H1R1CA03# |
| | | | 1.2pF | ±0.05pF | GRM0225C1H1R2WA03# |
| | | | | ±0.1pF | GRM0225C1H1R2BA03# |
| | | | | ±0.25pF | GRM0225C1H1R2CA03# |
| | | | 1.3pF | ±0.05pF | GRM0225C1H1R3WA03# |
| | | | | ±0.1pF | GRM0225C1H1R3BA03# |
| | | | | ±0.25pF | GRM0225C1H1R3CA03# |
| | | | 1.4pF | ±0.05pF | GRM0225C1H1R4WA03# |
| | | | | ±0.1pF | GRM0225C1H1R4BA03# |
| | | | | ±0.25pF | GRM0225C1H1R4CA03# |
| | | | 1.5pF | ±0.05pF | GRM0225C1H1R5WA03# |
| | | | | ±0.1pF | GRM0225C1H1R5BA03# |
| | | | | ±0.25pF | GRM0225C1H1R5CA03# |
| | | | 1.6pF | ±0.05pF | GRM0225C1H1R6WA03# |
| | | | | ±0.1pF | GRM0225C1H1R6BA03# |
| | | | | ±0.25pF | GRM0225C1H1R6CA03# |
| | | | 1.7pF | ±0.05pF | GRM0225C1H1R7WA03# |
| | | | | ±0.1pF | GRM0225C1H1R7BA03# |
| | | | | ±0.25pF | GRM0225C1H1R7CA03# |
| | | | 1.8pF | ±0.05pF | GRM0225C1H1R8WA03# |
| | | | | ±0.1pF | GRM0225C1H1R8BA03# |
| | | | | ±0.25pF | GRM0225C1H1R8CA03# |
| | | | 1.9pF | ±0.05pF | GRM0225C1H1R9WA03# |
| | | | | ±0.1pF | GRM0225C1H1R9BA03# |
| | | | | ±0.25pF | GRM0225C1H1R9CA03# |
| | | | 2.0pF | ±0.05pF | GRM0225C1H2R0WA03# |
| | | | | ±0.1pF | GRM0225C1H2R0BA03# |
| | | | | ±0.25pF | GRM0225C1H2R0CA03# |
| | | | 2.1pF | ±0.05pF | GRM0225C1H2R1WA03# |
| | | | | ±0.1pF | GRM0225C1H2R1BA03# |
| | | | | ±0.25pF | GRM0225C1H2R1CA03# |
| 0.22mm | 50Vdc | C0G | 2.2pF | ±0.05pF | GRM0225C1H2R2WA03# |
| | | | | ±0.1pF | GRM0225C1H2R2BA03# |
| | | | | ±0.25pF | GRM0225C1H2R2CA03# |
| | | | 2.3pF | ±0.05pF | GRM0225C1H2R3WA03# |
| | | | | ±0.1pF | GRM0225C1H2R3BA03# |
| | | | | ±0.25pF | GRM0225C1H2R3CA03# |
| | | | 2.4pF | ±0.05pF | GRM0225C1H2R4WA03# |
| | | | | ±0.1pF | GRM0225C1H2R4BA03# |
| | | | | ±0.25pF | GRM0225C1H2R4CA03# |
| | | | 2.5pF | ±0.05pF | GRM0225C1H2R5WA03# |
| | | | | ±0.1pF | GRM0225C1H2R5BA03# |
| | | | | ±0.25pF | GRM0225C1H2R5CA03# |
| | | | 2.6pF | ±0.05pF | GRM0225C1H2R6WA03# |
| | | | | ±0.1pF | GRM0225C1H2R6BA03# |
| | | | | ±0.25pF | GRM0225C1H2R6CA03# |
| | | | 2.7pF | ±0.05pF | GRM0225C1H2R7WA03# |
| | | | | ±0.1pF | GRM0225C1H2R7BA03# |
| | | | | ±0.25pF | GRM0225C1H2R7CA03# |
| | | | 2.8pF | ±0.05pF | GRM0225C1H2R8WA03# |
| | | | | ±0.1pF | GRM0225C1H2R8BA03# |
| | | | | ±0.25pF | GRM0225C1H2R8CA03# |
| | | | 2.9pF | ±0.05pF | GRM0225C1H2R9WA03# |
| | | | | ±0.1pF | GRM0225C1H2R9BA03# |
| | | | | ±0.25pF | GRM0225C1H2R9CA03# |
| | | | 3.0pF | ±0.05pF | GRM0225C1H3R0WA03# |
| | | | | ±0.1pF | GRM0225C1H3R0BA03# |
| | | | | ±0.25pF | GRM0225C1H3R0CA03# |
| | | | 3.1pF | ±0.05pF | GRM0225C1H3R1WA03# |
| | | | | ±0.1pF | GRM0225C1H3R1BA03# |
| | | | | ±0.25pF | GRM0225C1H3R1CA03# |
| | | | 3.2pF | ±0.05pF | GRM0225C1H3R2WA03# |
| | | | | ±0.1pF | GRM0225C1H3R2BA03# |
| | | | | ±0.25pF | GRM0225C1H3R2CA03# |
| | | | 3.3pF | ±0.05pF | GRM0225C1H3R3WA03# |
| | | | | ±0.1pF | GRM0225C1H3R3BA03# |
| | | | | ±0.25pF | GRM0225C1H3R3CA03# |
| | | | 3.4pF | ±0.05pF | GRM0225C1H3R4WA03# |
| | | | | ±0.1pF | GRM0225C1H3R4BA03# |
| | | | | ±0.25pF | GRM0225C1H3R4CA03# |
| | | | 3.5pF | ±0.05pF | GRM0225C1H3R5WA03# |
| | | | | ±0.1pF | GRM0225C1H3R5BA03# |
| | | | | ±0.25pF | GRM0225C1H3R5CA03# |
| | | | 3.6pF | ±0.05pF | GRM0225C1H3R6WA03# |
| | | | | ±0.1pF | GRM0225C1H3R6BA03# |
| | | | | ±0.25pF | GRM0225C1H3R6CA03# |
| | | | 3.7pF | ±0.05pF | GRM0225C1H3R7WA03# |
| | | | | ±0.1pF | GRM0225C1H3R7BA03# |
| | | | | ±0.25pF | GRM0225C1H3R7CA03# |
| | | | 3.8pF | ±0.05pF | GRM0225C1H3R8WA03# |
| | | | | ±0.1pF | GRM0225C1H3R8BA03# |
| | | | | ±0.25pF | GRM0225C1H3R8CA03# |
| | | | 3.9pF | ±0.05pF | GRM0225C1H3R9WA03# |
| | | | | ±0.1pF | GRM0225C1H3R9BA03# |
| | | | | ±0.25pF | GRM0225C1H3R9CA03# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.4×0.2mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.22mm | 50Vdc | C0G | 4.0pF | ±0.05pF | **GRM0225C1H4R0WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H4R0BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H4R0CA03#** | |
| | | | 4.1pF | ±0.05pF | **GRM0225C1H4R1WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H4R1BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H4R1CA03#** | |
| | | | 4.2pF | ±0.05pF | **GRM0225C1H4R2WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H4R2BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H4R2CA03#** | |
| | | | 4.3pF | ±0.05pF | **GRM0225C1H4R3WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H4R3BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H4R3CA03#** | |
| | | | 4.4pF | ±0.05pF | **GRM0225C1H4R4WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H4R4BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H4R4CA03#** | |
| | | | 4.5pF | ±0.05pF | **GRM0225C1H4R5WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H4R5BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H4R5CA03#** | |
| | | | 4.6pF | ±0.05pF | **GRM0225C1H4R6WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H4R6BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H4R6CA03#** | |
| | | | 4.7pF | ±0.05pF | **GRM0225C1H4R7WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H4R7BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H4R7CA03#** | |
| | | | 4.8pF | ±0.05pF | **GRM0225C1H4R8WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H4R8BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H4R8CA03#** | |
| | | | 4.9pF | ±0.05pF | **GRM0225C1H4R9WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H4R9BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H4R9CA03#** | |
| | | | 5.0pF | ±0.05pF | **GRM0225C1H5R0WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H5R0BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H5R0CA03#** | |
| | | | 5.1pF | ±0.05pF | **GRM0225C1H5R1WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H5R1BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H5R1CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H5R1DA03#** | |
| | | | 5.2pF | ±0.05pF | **GRM0225C1H5R2WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H5R2BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H5R2CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H5R2DA03#** | |
| | | | 5.3pF | ±0.05pF | **GRM0225C1H5R3WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H5R3BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H5R3CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H5R3DA03#** | |
| | | | 5.4pF | ±0.05pF | **GRM0225C1H5R4WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H5R4BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H5R4CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H5R4DA03#** | |
| | | | 5.5pF | ±0.05pF | **GRM0225C1H5R5WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H5R5BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H5R5CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H5R5DA03#** | |
| | | | 5.6pF | ±0.05pF | **GRM0225C1H5R6WA03#** | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.22mm | 50Vdc | C0G | 5.6pF | ±0.1pF | **GRM0225C1H5R6BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H5R6CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H5R6DA03#** | |
| | | | 5.7pF | ±0.05pF | **GRM0225C1H5R7WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H5R7BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H5R7CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H5R7DA03#** | |
| | | | 5.8pF | ±0.05pF | **GRM0225C1H5R8WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H5R8BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H5R8CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H5R8DA03#** | |
| | | | 5.9pF | ±0.05pF | **GRM0225C1H5R9WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H5R9BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H5R9CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H5R9DA03#** | |
| | | | 6.0pF | ±0.05pF | **GRM0225C1H6R0WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H6R0BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H6R0CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H6R0DA03#** | |
| | | | 6.1pF | ±0.05pF | **GRM0225C1H6R1WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H6R1BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H6R1CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H6R1DA03#** | |
| | | | 6.2pF | ±0.05pF | **GRM0225C1H6R2WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H6R2BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H6R2CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H6R2DA03#** | |
| | | | 6.3pF | ±0.05pF | **GRM0225C1H6R3WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H6R3BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H6R3CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H6R3DA03#** | |
| | | | 6.4pF | ±0.05pF | **GRM0225C1H6R4WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H6R4BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H6R4CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H6R4DA03#** | |
| | | | 6.5pF | ±0.05pF | **GRM0225C1H6R5WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H6R5BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H6R5CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H6R5DA03#** | |
| | | | 6.6pF | ±0.05pF | **GRM0225C1H6R6WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H6R6BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H6R6CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H6R6DA03#** | |
| | | | 6.7pF | ±0.05pF | **GRM0225C1H6R7WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H6R7BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H6R7CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H6R7DA03#** | |
| | | | 6.8pF | ±0.05pF | **GRM0225C1H6R8WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H6R8BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H6R8CA03#** | |
| | | | | ±0.5pF | **GRM0225C1H6R8DA03#** | |
| | | | 6.9pF | ±0.05pF | **GRM0225C1H6R9WA03#** | |
| | | | | ±0.1pF | **GRM0225C1H6R9BA03#** | |
| | | | | ±0.25pF | **GRM0225C1H6R9CA03#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.4×0.2mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.22mm | 50Vdc | C0G | 6.9pF | ±0.5pF | GRM0225C1H6R9DA03# |
| | | | 7.0pF | ±0.05pF | GRM0225C1H7R0WA03# |
| | | | | ±0.1pF | GRM0225C1H7R0BA03# |
| | | | | ±0.25pF | GRM0225C1H7R0CA03# |
| | | | | ±0.5pF | GRM0225C1H7R0DA03# |
| | | | 7.1pF | ±0.05pF | GRM0225C1H7R1WA03# |
| | | | | ±0.1pF | GRM0225C1H7R1BA03# |
| | | | | ±0.25pF | GRM0225C1H7R1CA03# |
| | | | | ±0.5pF | GRM0225C1H7R1DA03# |
| | | | 7.2pF | ±0.05pF | GRM0225C1H7R2WA03# |
| | | | | ±0.1pF | GRM0225C1H7R2BA03# |
| | | | | ±0.25pF | GRM0225C1H7R2CA03# |
| | | | | ±0.5pF | GRM0225C1H7R2DA03# |
| | | | 7.3pF | ±0.05pF | GRM0225C1H7R3WA03# |
| | | | | ±0.1pF | GRM0225C1H7R3BA03# |
| | | | | ±0.25pF | GRM0225C1H7R3CA03# |
| | | | | ±0.5pF | GRM0225C1H7R3DA03# |
| | | | 7.4pF | ±0.05pF | GRM0225C1H7R4WA03# |
| | | | | ±0.1pF | GRM0225C1H7R4BA03# |
| | | | | ±0.25pF | GRM0225C1H7R4CA03# |
| | | | | ±0.5pF | GRM0225C1H7R4DA03# |
| | | | 7.5pF | ±0.05pF | GRM0225C1H7R5WA03# |
| | | | | ±0.1pF | GRM0225C1H7R5BA03# |
| | | | | ±0.25pF | GRM0225C1H7R5CA03# |
| | | | | ±0.5pF | GRM0225C1H7R5DA03# |
| | | | 7.6pF | ±0.05pF | GRM0225C1H7R6WA03# |
| | | | | ±0.1pF | GRM0225C1H7R6BA03# |
| | | | | ±0.25pF | GRM0225C1H7R6CA03# |
| | | | | ±0.5pF | GRM0225C1H7R6DA03# |
| | | | 7.7pF | ±0.05pF | GRM0225C1H7R7WA03# |
| | | | | ±0.1pF | GRM0225C1H7R7BA03# |
| | | | | ±0.25pF | GRM0225C1H7R7CA03# |
| | | | | ±0.5pF | GRM0225C1H7R7DA03# |
| | | | 7.8pF | ±0.05pF | GRM0225C1H7R8WA03# |
| | | | | ±0.1pF | GRM0225C1H7R8BA03# |
| | | | | ±0.25pF | GRM0225C1H7R8CA03# |
| | | | | ±0.5pF | GRM0225C1H7R8DA03# |
| | | | 7.9pF | ±0.05pF | GRM0225C1H7R9WA03# |
| | | | | ±0.1pF | GRM0225C1H7R9BA03# |
| | | | | ±0.25pF | GRM0225C1H7R9CA03# |
| | | | | ±0.5pF | GRM0225C1H7R9DA03# |
| | | | 8.0pF | ±0.05pF | GRM0225C1H8R0WA03# |
| | | | | ±0.1pF | GRM0225C1H8R0BA03# |
| | | | | ±0.25pF | GRM0225C1H8R0CA03# |
| | | | | ±0.5pF | GRM0225C1H8R0DA03# |
| | | | 8.1pF | ±0.05pF | GRM0225C1H8R1WA03# |
| | | | | ±0.1pF | GRM0225C1H8R1BA03# |
| | | | | ±0.25pF | GRM0225C1H8R1CA03# |
| | | | | ±0.5pF | GRM0225C1H8R1DA03# |
| | | | 8.2pF | ±0.05pF | GRM0225C1H8R2WA03# |
| | | | | ±0.1pF | GRM0225C1H8R2BA03# |
| | | | | ±0.25pF | GRM0225C1H8R2CA03# |
| | | | | ±0.5pF | GRM0225C1H8R2DA03# |
| | | | 8.3pF | ±0.05pF | GRM0225C1H8R3WA03# |
| | | | | ±0.1pF | GRM0225C1H8R3BA03# |
| | | | | ±0.25pF | GRM0225C1H8R3CA03# |
| | | | | ±0.5pF | GRM0225C1H8R3DA03# |
| | | | 8.4pF | ±0.05pF | GRM0225C1H8R4WA03# |
| | | | | ±0.1pF | GRM0225C1H8R4BA03# |
| | | | | ±0.25pF | GRM0225C1H8R4CA03# |
| | | | | ±0.5pF | GRM0225C1H8R4DA03# |
| | | | 8.5pF | ±0.05pF | GRM0225C1H8R5WA03# |
| | | | | ±0.1pF | GRM0225C1H8R5BA03# |
| | | | | ±0.25pF | GRM0225C1H8R5CA03# |
| | | | | ±0.5pF | GRM0225C1H8R5DA03# |
| | | | 8.6pF | ±0.05pF | GRM0225C1H8R6WA03# |
| | | | | ±0.1pF | GRM0225C1H8R6BA03# |
| | | | | ±0.25pF | GRM0225C1H8R6CA03# |
| | | | | ±0.5pF | GRM0225C1H8R6DA03# |
| | | | 8.7pF | ±0.05pF | GRM0225C1H8R7WA03# |
| | | | | ±0.1pF | GRM0225C1H8R7BA03# |
| | | | | ±0.25pF | GRM0225C1H8R7CA03# |
| | | | | ±0.5pF | GRM0225C1H8R7DA03# |
| | | | 8.8pF | ±0.05pF | GRM0225C1H8R8WA03# |
| | | | | ±0.1pF | GRM0225C1H8R8BA03# |
| | | | | ±0.25pF | GRM0225C1H8R8CA03# |
| | | | | ±0.5pF | GRM0225C1H8R8DA03# |
| | | | 8.9pF | ±0.05pF | GRM0225C1H8R9WA03# |
| | | | | ±0.1pF | GRM0225C1H8R9BA03# |
| | | | | ±0.25pF | GRM0225C1H8R9CA03# |
| | | | | ±0.5pF | GRM0225C1H8R9DA03# |
| | | | 9.0pF | ±0.05pF | GRM0225C1H9R0WA03# |
| | | | | ±0.1pF | GRM0225C1H9R0BA03# |
| | | | | ±0.25pF | GRM0225C1H9R0CA03# |
| | | | | ±0.5pF | GRM0225C1H9R0DA03# |
| | | | 9.1pF | ±0.05pF | GRM0225C1H9R1WA03# |
| | | | | ±0.1pF | GRM0225C1H9R1BA03# |
| | | | | ±0.25pF | GRM0225C1H9R1CA03# |
| | | | | ±0.5pF | GRM0225C1H9R1DA03# |
| | | | 9.2pF | ±0.05pF | GRM0225C1H9R2WA03# |
| | | | | ±0.1pF | GRM0225C1H9R2BA03# |
| | | | | ±0.25pF | GRM0225C1H9R2CA03# |
| | | | | ±0.5pF | GRM0225C1H9R2DA03# |
| | | | 9.3pF | ±0.05pF | GRM0225C1H9R3WA03# |
| | | | | ±0.1pF | GRM0225C1H9R3BA03# |
| | | | | ±0.25pF | GRM0225C1H9R3CA03# |
| | | | | ±0.5pF | GRM0225C1H9R3DA03# |
| | | | 9.4pF | ±0.05pF | GRM0225C1H9R4WA03# |
| | | | | ±0.1pF | GRM0225C1H9R4BA03# |
| | | | | ±0.25pF | GRM0225C1H9R4CA03# |
| | | | | ±0.5pF | GRM0225C1H9R4DA03# |
| | | | 9.5pF | ±0.05pF | GRM0225C1H9R5WA03# |
| | | | | ±0.1pF | GRM0225C1H9R5BA03# |
| | | | | ±0.25pF | GRM0225C1H9R5CA03# |
| | | | | ±0.5pF | GRM0225C1H9R5DA03# |
| | | | 9.6pF | ±0.05pF | GRM0225C1H9R6WA03# |
| | | | | ±0.1pF | GRM0225C1H9R6BA03# |
| | | | | ±0.25pF | GRM0225C1H9R6CA03# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.4×0.2mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.22mm | 50Vdc | C0G | 9.6pF | ±0.5pF | **GRM0225C1H9R6DA03#** |
| | | | 9.7pF | ±0.05pF | **GRM0225C1H9R7WA03#** |
| | | | | ±0.1pF | **GRM0225C1H9R7BA03#** |
| | | | | ±0.25pF | **GRM0225C1H9R7CA03#** |
| | | | | ±0.5pF | **GRM0225C1H9R7DA03#** |
| | | | 9.8pF | ±0.05pF | **GRM0225C1H9R8WA03#** |
| | | | | ±0.1pF | **GRM0225C1H9R8BA03#** |
| | | | | ±0.25pF | **GRM0225C1H9R8CA03#** |
| | | | | ±0.5pF | **GRM0225C1H9R8DA03#** |
| | | | 9.9pF | ±0.05pF | **GRM0225C1H9R9WA03#** |
| | | | | ±0.1pF | **GRM0225C1H9R9BA03#** |
| | | | | ±0.25pF | **GRM0225C1H9R9CA03#** |
| | | | | ±0.5pF | **GRM0225C1H9R9DA03#** |
| | | | 10pF | ±2% | **GRM0225C1H100GA03#** |
| | | | | ±5% | **GRM0225C1H100JA03#** |
| | | | 11pF | ±2% | **GRM0225C1H110GA03#** |
| | | | | ±5% | **GRM0225C1H110JA03#** |
| | | | 12pF | ±2% | **GRM0225C1H120GA03#** |
| | | | | ±5% | **GRM0225C1H120JA03#** |
| | | | 13pF | ±2% | **GRM0225C1H130GA03#** |
| | | | | ±5% | **GRM0225C1H130JA03#** |
| | | | 15pF | ±2% | **GRM0225C1H150GA03#** |
| | | | | ±5% | **GRM0225C1H150JA03#** |
| | | | 16pF | ±2% | **GRM0225C1H160GA03#** |
| | | | | ±5% | **GRM0225C1H160JA03#** |
| | | | 17pF | ±5% | **GRM0225C1H170JA02#** |
| | | | 18pF | ±5% | **GRM0225C1H180JA02#** |
| | | | 19pF | ±5% | **GRM0225C1H190JA02#** |
| | | | 20pF | ±5% | **GRM0225C1H200JA02#** |
| | | | 21pF | ±5% | **GRM0225C1H210JA02#** |
| | | | 22pF | ±5% | **GRM0225C1H220JA02#** |
| | | | 23pF | ±5% | **GRM0225C1H230JA02#** |
| | | | 24pF | ±5% | **GRM0225C1H240JA02#** |
| | | | 27pF | ±5% | **GRM0225C1H270JA02#** |
| | | | 30pF | ±5% | **GRM0225C1H300JA02#** |
| | | | 33pF | ±5% | **GRM0225C1H330JA02#** |
| | | | 36pF | ±5% | **GRM0225C1H360JA02#** |
| | | | 39pF | ±5% | **GRM0225C1H390JA02#** |
| | | | 43pF | ±5% | **GRM0225C1H430JA02#** |
| | | | 47pF | ±5% | **GRM0225C1H470JA02#** |
| | | | 51pF | ±5% | **GRM0225C1H510JA02#** |
| | | | 56pF | ±5% | **GRM0225C1H560JA02#** |
| | | | 62pF | ±5% | **GRM0225C1H620JA02#** |
| | | | 68pF | ±5% | **GRM0225C1H680JA02#** |
| | | | 75pF | ±5% | **GRM0225C1H750JA02#** |
| | | | 82pF | ±5% | **GRM0225C1H820JA02#** |
| | | | 91pF | ±5% | **GRM0225C1H910JA02#** |
| | | | 100pF | ±5% | **GRM0225C1H101JA02#** |
| | | CK | 0.20pF | ±0.05pF | **GRM0224C1HR20WA03#** |
| | | | | ±0.1pF | **GRM0224C1HR20BA03#** |
| | | | 0.30pF | ±0.05pF | **GRM0224C1HR30WA03#** |
| | | | | ±0.1pF | **GRM0224C1HR30BA03#** |
| | | | 0.40pF | ±0.05pF | **GRM0224C1HR40WA03#** |
| | | | | ±0.1pF | **GRM0224C1HR40BA03#** |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.22mm | 50Vdc | CK | 0.50pF | ±0.05pF | **GRM0224C1HR50WA03#** |
| | | | | ±0.1pF | **GRM0224C1HR50BA03#** |
| | | | 0.51pF | ±0.05pF | **GRM0224C1HR51WA03#** |
| | | | 0.60pF | ±0.05pF | **GRM0224C1HR60WA03#** |
| | | | | ±0.1pF | **GRM0224C1HR60BA03#** |
| | | | 0.70pF | ±0.05pF | **GRM0224C1HR70WA03#** |
| | | | | ±0.1pF | **GRM0224C1HR70BA03#** |
| | | | 0.80pF | ±0.05pF | **GRM0224C1HR80WA03#** |
| | | | | ±0.1pF | **GRM0224C1HR80BA03#** |
| | | | 0.90pF | ±0.05pF | **GRM0224C1HR90WA03#** |
| | | | | ±0.1pF | **GRM0224C1HR90BA03#** |
| | | | 1.0pF | ±0.05pF | **GRM0224C1H1R0WA03#** |
| | | | | ±0.1pF | **GRM0224C1H1R0BA03#** |
| | | | | ±0.25pF | **GRM0224C1H1R0CA03#** |
| | | | 1.1pF | ±0.05pF | **GRM0224C1H1R1WA03#** |
| | | | | ±0.1pF | **GRM0224C1H1R1BA03#** |
| | | | | ±0.25pF | **GRM0224C1H1R1CA03#** |
| | | | 1.2pF | ±0.05pF | **GRM0224C1H1R2WA03#** |
| | | | | ±0.1pF | **GRM0224C1H1R2BA03#** |
| | | | | ±0.25pF | **GRM0224C1H1R2CA03#** |
| | | | 1.3pF | ±0.05pF | **GRM0224C1H1R3WA03#** |
| | | | | ±0.1pF | **GRM0224C1H1R3BA03#** |
| | | | | ±0.25pF | **GRM0224C1H1R3CA03#** |
| | | | 1.4pF | ±0.05pF | **GRM0224C1H1R4WA03#** |
| | | | | ±0.1pF | **GRM0224C1H1R4BA03#** |
| | | | | ±0.25pF | **GRM0224C1H1R4CA03#** |
| | | | 1.5pF | ±0.05pF | **GRM0224C1H1R5WA03#** |
| | | | | ±0.1pF | **GRM0224C1H1R5BA03#** |
| | | | | ±0.25pF | **GRM0224C1H1R5CA03#** |
| | | | 1.6pF | ±0.05pF | **GRM0224C1H1R6WA03#** |
| | | | | ±0.1pF | **GRM0224C1H1R6BA03#** |
| | | | | ±0.25pF | **GRM0224C1H1R6CA03#** |
| | | | 1.7pF | ±0.05pF | **GRM0224C1H1R7WA03#** |
| | | | | ±0.1pF | **GRM0224C1H1R7BA03#** |
| | | | | ±0.25pF | **GRM0224C1H1R7CA03#** |
| | | | 1.8pF | ±0.05pF | **GRM0224C1H1R8WA03#** |
| | | | | ±0.1pF | **GRM0224C1H1R8BA03#** |
| | | | | ±0.25pF | **GRM0224C1H1R8CA03#** |
| | | | 1.9pF | ±0.05pF | **GRM0224C1H1R9WA03#** |
| | | | | ±0.1pF | **GRM0224C1H1R9BA03#** |
| | | | | ±0.25pF | **GRM0224C1H1R9CA03#** |
| | | | 2.0pF | ±0.05pF | **GRM0224C1H2R0WA03#** |
| | | | | ±0.1pF | **GRM0224C1H2R0BA03#** |
| | | | | ±0.25pF | **GRM0224C1H2R0CA03#** |
| | | CJ | 2.1pF | ±0.05pF | **GRM0223C1H2R1WA03#** |
| | | | | ±0.1pF | **GRM0223C1H2R1BA03#** |
| | | | | ±0.25pF | **GRM0223C1H2R1CA03#** |
| | | | 2.2pF | ±0.05pF | **GRM0223C1H2R2WA03#** |
| | | | | ±0.1pF | **GRM0223C1H2R2BA03#** |
| | | | | ±0.25pF | **GRM0223C1H2R2CA03#** |
| | | | 2.3pF | ±0.05pF | **GRM0223C1H2R3WA03#** |
| | | | | ±0.1pF | **GRM0223C1H2R3BA03#** |
| | | | | ±0.25pF | **GRM0223C1H2R3CA03#** |
| | | | 2.4pF | ±0.05pF | **GRM0223C1H2R4WA03#** |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.4×0.2mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.22mm | 50Vdc | CJ | 2.4pF | ±0.1pF | GRM0223C1H2R4BA03# |
| | | | | ±0.25pF | GRM0223C1H2R4CA03# |
| | | | 2.5pF | ±0.05pF | GRM0223C1H2R5WA03# |
| | | | | ±0.1pF | GRM0223C1H2R5BA03# |
| | | | | ±0.25pF | GRM0223C1H2R5CA03# |
| | | | 2.6pF | ±0.05pF | GRM0223C1H2R6WA03# |
| | | | | ±0.1pF | GRM0223C1H2R6BA03# |
| | | | | ±0.25pF | GRM0223C1H2R6CA03# |
| | | | 2.7pF | ±0.05pF | GRM0223C1H2R7WA03# |
| | | | | ±0.1pF | GRM0223C1H2R7BA03# |
| | | | | ±0.25pF | GRM0223C1H2R7CA03# |
| | | | 2.8pF | ±0.05pF | GRM0223C1H2R8WA03# |
| | | | | ±0.1pF | GRM0223C1H2R8BA03# |
| | | | | ±0.25pF | GRM0223C1H2R8CA03# |
| | | | 2.9pF | ±0.05pF | GRM0223C1H2R9WA03# |
| | | | | ±0.1pF | GRM0223C1H2R9BA03# |
| | | | | ±0.25pF | GRM0223C1H2R9CA03# |
| | | | 3.0pF | ±0.05pF | GRM0223C1H3R0WA03# |
| | | | | ±0.1pF | GRM0223C1H3R0BA03# |
| | | | | ±0.25pF | GRM0223C1H3R0CA03# |
| | | | 3.1pF | ±0.05pF | GRM0223C1H3R1WA03# |
| | | | | ±0.1pF | GRM0223C1H3R1BA03# |
| | | | | ±0.25pF | GRM0223C1H3R1CA03# |
| | | | 3.2pF | ±0.05pF | GRM0223C1H3R2WA03# |
| | | | | ±0.1pF | GRM0223C1H3R2BA03# |
| | | | | ±0.25pF | GRM0223C1H3R2CA03# |
| | | | 3.3pF | ±0.05pF | GRM0223C1H3R3WA03# |
| | | | | ±0.1pF | GRM0223C1H3R3BA03# |
| | | | | ±0.25pF | GRM0223C1H3R3CA03# |
| | | | 3.4pF | ±0.05pF | GRM0223C1H3R4WA03# |
| | | | | ±0.1pF | GRM0223C1H3R4BA03# |
| | | | | ±0.25pF | GRM0223C1H3R4CA03# |
| | | | 3.5pF | ±0.05pF | GRM0223C1H3R5WA03# |
| | | | | ±0.1pF | GRM0223C1H3R5BA03# |
| | | | | ±0.25pF | GRM0223C1H3R5CA03# |
| | | | 3.6pF | ±0.05pF | GRM0223C1H3R6WA03# |
| | | | | ±0.1pF | GRM0223C1H3R6BA03# |
| | | | | ±0.25pF | GRM0223C1H3R6CA03# |
| | | | 3.7pF | ±0.05pF | GRM0223C1H3R7WA03# |
| | | | | ±0.1pF | GRM0223C1H3R7BA03# |
| | | | | ±0.25pF | GRM0223C1H3R7CA03# |
| | | | 3.8pF | ±0.05pF | GRM0223C1H3R8WA03# |
| | | | | ±0.1pF | GRM0223C1H3R8BA03# |
| | | | | ±0.25pF | GRM0223C1H3R8CA03# |
| | | | 3.9pF | ±0.05pF | GRM0223C1H3R9WA03# |
| | | | | ±0.1pF | GRM0223C1H3R9BA03# |
| | | | | ±0.25pF | GRM0223C1H3R9CA03# |
| | | CH | 4.0pF | ±0.05pF | GRM0222C1H4R0WA03# |
| | | | | ±0.1pF | GRM0222C1H4R0BA03# |
| | | | | ±0.25pF | GRM0222C1H4R0CA03# |
| | | | 4.1pF | ±0.05pF | GRM0222C1H4R1WA03# |
| | | | | ±0.1pF | GRM0222C1H4R1BA03# |
| | | | | ±0.25pF | GRM0222C1H4R1CA03# |
| | | | 4.2pF | ±0.05pF | GRM0222C1H4R2WA03# |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.22mm | 50Vdc | CH | 4.2pF | ±0.1pF | GRM0222C1H4R2BA03# |
| | | | | ±0.25pF | GRM0222C1H4R2CA03# |
| | | | 4.3pF | ±0.05pF | GRM0222C1H4R3WA03# |
| | | | | ±0.1pF | GRM0222C1H4R3BA03# |
| | | | | ±0.25pF | GRM0222C1H4R3CA03# |
| | | | 4.4pF | ±0.05pF | GRM0222C1H4R4WA03# |
| | | | | ±0.1pF | GRM0222C1H4R4BA03# |
| | | | | ±0.25pF | GRM0222C1H4R4CA03# |
| | | | 4.5pF | ±0.05pF | GRM0222C1H4R5WA03# |
| | | | | ±0.1pF | GRM0222C1H4R5BA03# |
| | | | | ±0.25pF | GRM0222C1H4R5CA03# |
| | | | 4.6pF | ±0.05pF | GRM0222C1H4R6WA03# |
| | | | | ±0.1pF | GRM0222C1H4R6BA03# |
| | | | | ±0.25pF | GRM0222C1H4R6CA03# |
| | | | 4.7pF | ±0.05pF | GRM0222C1H4R7WA03# |
| | | | | ±0.1pF | GRM0222C1H4R7BA03# |
| | | | | ±0.25pF | GRM0222C1H4R7CA03# |
| | | | 4.8pF | ±0.05pF | GRM0222C1H4R8WA03# |
| | | | | ±0.1pF | GRM0222C1H4R8BA03# |
| | | | | ±0.25pF | GRM0222C1H4R8CA03# |
| | | | 4.9pF | ±0.05pF | GRM0222C1H4R9WA03# |
| | | | | ±0.1pF | GRM0222C1H4R9BA03# |
| | | | | ±0.25pF | GRM0222C1H4R9CA03# |
| | | | 5.0pF | ±0.05pF | GRM0222C1H5R0WA03# |
| | | | | ±0.1pF | GRM0222C1H5R0BA03# |
| | | | | ±0.25pF | GRM0222C1H5R0CA03# |
| | | | 5.1pF | ±0.05pF | GRM0222C1H5R1WA03# |
| | | | | ±0.1pF | GRM0222C1H5R1BA03# |
| | | | | ±0.25pF | GRM0222C1H5R1CA03# |
| | | | | ±0.5pF | GRM0222C1H5R1DA03# |
| | | | 5.2pF | ±0.05pF | GRM0222C1H5R2WA03# |
| | | | | ±0.1pF | GRM0222C1H5R2BA03# |
| | | | | ±0.25pF | GRM0222C1H5R2CA03# |
| | | | | ±0.5pF | GRM0222C1H5R2DA03# |
| | | | 5.3pF | ±0.05pF | GRM0222C1H5R3WA03# |
| | | | | ±0.1pF | GRM0222C1H5R3BA03# |
| | | | | ±0.25pF | GRM0222C1H5R3CA03# |
| | | | | ±0.5pF | GRM0222C1H5R3DA03# |
| | | | 5.4pF | ±0.05pF | GRM0222C1H5R4WA03# |
| | | | | ±0.1pF | GRM0222C1H5R4BA03# |
| | | | | ±0.25pF | GRM0222C1H5R4CA03# |
| | | | | ±0.5pF | GRM0222C1H5R4DA03# |
| | | | 5.5pF | ±0.05pF | GRM0222C1H5R5WA03# |
| | | | | ±0.1pF | GRM0222C1H5R5BA03# |
| | | | | ±0.25pF | GRM0222C1H5R5CA03# |
| | | | | ±0.5pF | GRM0222C1H5R5DA03# |
| | | | 5.6pF | ±0.05pF | GRM0222C1H5R6WA03# |
| | | | | ±0.1pF | GRM0222C1H5R6BA03# |
| | | | | ±0.25pF | GRM0222C1H5R6CA03# |
| | | | | ±0.5pF | GRM0222C1H5R6DA03# |
| | | | 5.7pF | ±0.05pF | GRM0222C1H5R7WA03# |
| | | | | ±0.1pF | GRM0222C1H5R7BA03# |
| | | | | ±0.25pF | GRM0222C1H5R7CA03# |
| | | | | ±0.5pF | GRM0222C1H5R7DA03# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.4×0.2mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.22mm | 50Vdc | CH | 5.8pF | ±0.05pF | GRM0222C1H5R8WA03# | |
| | | | | ±0.1pF | GRM0222C1H5R8BA03# | |
| | | | | ±0.25pF | GRM0222C1H5R8CA03# | |
| | | | | ±0.5pF | GRM0222C1H5R8DA03# | |
| | | | 5.9pF | ±0.05pF | GRM0222C1H5R9WA03# | |
| | | | | ±0.1pF | GRM0222C1H5R9BA03# | |
| | | | | ±0.25pF | GRM0222C1H5R9CA03# | |
| | | | | ±0.5pF | GRM0222C1H5R9DA03# | |
| | | | 6.0pF | ±0.05pF | GRM0222C1H6R0WA03# | |
| | | | | ±0.1pF | GRM0222C1H6R0BA03# | |
| | | | | ±0.25pF | GRM0222C1H6R0CA03# | |
| | | | | ±0.5pF | GRM0222C1H6R0DA03# | |
| | | | 6.1pF | ±0.05pF | GRM0222C1H6R1WA03# | |
| | | | | ±0.1pF | GRM0222C1H6R1BA03# | |
| | | | | ±0.25pF | GRM0222C1H6R1CA03# | |
| | | | | ±0.5pF | GRM0222C1H6R1DA03# | |
| | | | 6.2pF | ±0.05pF | GRM0222C1H6R2WA03# | |
| | | | | ±0.1pF | GRM0222C1H6R2BA03# | |
| | | | | ±0.25pF | GRM0222C1H6R2CA03# | |
| | | | | ±0.5pF | GRM0222C1H6R2DA03# | |
| | | | 6.3pF | ±0.05pF | GRM0222C1H6R3WA03# | |
| | | | | ±0.1pF | GRM0222C1H6R3BA03# | |
| | | | | ±0.25pF | GRM0222C1H6R3CA03# | |
| | | | | ±0.5pF | GRM0222C1H6R3DA03# | |
| | | | 6.4pF | ±0.05pF | GRM0222C1H6R4WA03# | |
| | | | | ±0.1pF | GRM0222C1H6R4BA03# | |
| | | | | ±0.25pF | GRM0222C1H6R4CA03# | |
| | | | | ±0.5pF | GRM0222C1H6R4DA03# | |
| | | | 6.5pF | ±0.05pF | GRM0222C1H6R5WA03# | |
| | | | | ±0.1pF | GRM0222C1H6R5BA03# | |
| | | | | ±0.25pF | GRM0222C1H6R5CA03# | |
| | | | | ±0.5pF | GRM0222C1H6R5DA03# | |
| | | | 6.6pF | ±0.05pF | GRM0222C1H6R6WA03# | |
| | | | | ±0.1pF | GRM0222C1H6R6BA03# | |
| | | | | ±0.25pF | GRM0222C1H6R6CA03# | |
| | | | | ±0.5pF | GRM0222C1H6R6DA03# | |
| | | | 6.7pF | ±0.05pF | GRM0222C1H6R7WA03# | |
| | | | | ±0.1pF | GRM0222C1H6R7BA03# | |
| | | | | ±0.25pF | GRM0222C1H6R7CA03# | |
| | | | | ±0.5pF | GRM0222C1H6R7DA03# | |
| | | | 6.8pF | ±0.05pF | GRM0222C1H6R8WA03# | |
| | | | | ±0.1pF | GRM0222C1H6R8BA03# | |
| | | | | ±0.25pF | GRM0222C1H6R8CA03# | |
| | | | | ±0.5pF | GRM0222C1H6R8DA03# | |
| | | | 6.9pF | ±0.05pF | GRM0222C1H6R9WA03# | |
| | | | | ±0.1pF | GRM0222C1H6R9BA03# | |
| | | | | ±0.25pF | GRM0222C1H6R9CA03# | |
| | | | | ±0.5pF | GRM0222C1H6R9DA03# | |
| | | | 7.0pF | ±0.05pF | GRM0222C1H7R0WA03# | |
| | | | | ±0.1pF | GRM0222C1H7R0BA03# | |
| | | | | ±0.25pF | GRM0222C1H7R0CA03# | |
| | | | | ±0.5pF | GRM0222C1H7R0DA03# | |
| | | | 7.1pF | ±0.05pF | GRM0222C1H7R1WA03# | |
| | | | | ±0.1pF | GRM0222C1H7R1BA03# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.22mm | 50Vdc | CH | 7.1pF | ±0.25pF | GRM0222C1H7R1CA03# | |
| | | | | ±0.5pF | GRM0222C1H7R1DA03# | |
| | | | 7.2pF | ±0.05pF | GRM0222C1H7R2WA03# | |
| | | | | ±0.1pF | GRM0222C1H7R2BA03# | |
| | | | | ±0.25pF | GRM0222C1H7R2CA03# | |
| | | | | ±0.5pF | GRM0222C1H7R2DA03# | |
| | | | 7.3pF | ±0.05pF | GRM0222C1H7R3WA03# | |
| | | | | ±0.1pF | GRM0222C1H7R3BA03# | |
| | | | | ±0.25pF | GRM0222C1H7R3CA03# | |
| | | | | ±0.5pF | GRM0222C1H7R3DA03# | |
| | | | 7.4pF | ±0.05pF | GRM0222C1H7R4WA03# | |
| | | | | ±0.1pF | GRM0222C1H7R4BA03# | |
| | | | | ±0.25pF | GRM0222C1H7R4CA03# | |
| | | | | ±0.5pF | GRM0222C1H7R4DA03# | |
| | | | 7.5pF | ±0.05pF | GRM0222C1H7R5WA03# | |
| | | | | ±0.1pF | GRM0222C1H7R5BA03# | |
| | | | | ±0.25pF | GRM0222C1H7R5CA03# | |
| | | | | ±0.5pF | GRM0222C1H7R5DA03# | |
| | | | 7.6pF | ±0.05pF | GRM0222C1H7R6WA03# | |
| | | | | ±0.1pF | GRM0222C1H7R6BA03# | |
| | | | | ±0.25pF | GRM0222C1H7R6CA03# | |
| | | | | ±0.5pF | GRM0222C1H7R6DA03# | |
| | | | 7.7pF | ±0.05pF | GRM0222C1H7R7WA03# | |
| | | | | ±0.1pF | GRM0222C1H7R7BA03# | |
| | | | | ±0.25pF | GRM0222C1H7R7CA03# | |
| | | | | ±0.5pF | GRM0222C1H7R7DA03# | |
| | | | 7.8pF | ±0.05pF | GRM0222C1H7R8WA03# | |
| | | | | ±0.1pF | GRM0222C1H7R8BA03# | |
| | | | | ±0.25pF | GRM0222C1H7R8CA03# | |
| | | | | ±0.5pF | GRM0222C1H7R8DA03# | |
| | | | 7.9pF | ±0.05pF | GRM0222C1H7R9WA03# | |
| | | | | ±0.1pF | GRM0222C1H7R9BA03# | |
| | | | | ±0.25pF | GRM0222C1H7R9CA03# | |
| | | | | ±0.5pF | GRM0222C1H7R9DA03# | |
| | | | 8.0pF | ±0.05pF | GRM0222C1H8R0WA03# | |
| | | | | ±0.1pF | GRM0222C1H8R0BA03# | |
| | | | | ±0.25pF | GRM0222C1H8R0CA03# | |
| | | | | ±0.5pF | GRM0222C1H8R0DA03# | |
| | | | 8.1pF | ±0.05pF | GRM0222C1H8R1WA03# | |
| | | | | ±0.1pF | GRM0222C1H8R1BA03# | |
| | | | | ±0.25pF | GRM0222C1H8R1CA03# | |
| | | | | ±0.5pF | GRM0222C1H8R1DA03# | |
| | | | 8.2pF | ±0.05pF | GRM0222C1H8R2WA03# | |
| | | | | ±0.1pF | GRM0222C1H8R2BA03# | |
| | | | | ±0.25pF | GRM0222C1H8R2CA03# | |
| | | | | ±0.5pF | GRM0222C1H8R2DA03# | |
| | | | 8.3pF | ±0.05pF | GRM0222C1H8R3WA03# | |
| | | | | ±0.1pF | GRM0222C1H8R3BA03# | |
| | | | | ±0.25pF | GRM0222C1H8R3CA03# | |
| | | | | ±0.5pF | GRM0222C1H8R3DA03# | |
| | | | 8.4pF | ±0.05pF | GRM0222C1H8R4WA03# | |
| | | | | ±0.1pF | GRM0222C1H8R4BA03# | |
| | | | | ±0.25pF | GRM0222C1H8R4CA03# | |
| | | | | ±0.5pF | GRM0222C1H8R4DA03# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.4×0.2mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.22mm | 50Vdc | CH | 8.5pF | ±0.05pF | GRM0222C1H8R5WA03# |
| | | | | ±0.1pF | GRM0222C1H8R5BA03# |
| | | | | ±0.25pF | GRM0222C1H8R5CA03# |
| | | | | ±0.5pF | GRM0222C1H8R5DA03# |
| | | | 8.6pF | ±0.05pF | GRM0222C1H8R6WA03# |
| | | | | ±0.1pF | GRM0222C1H8R6BA03# |
| | | | | ±0.25pF | GRM0222C1H8R6CA03# |
| | | | | ±0.5pF | GRM0222C1H8R6DA03# |
| | | | 8.7pF | ±0.05pF | GRM0222C1H8R7WA03# |
| | | | | ±0.1pF | GRM0222C1H8R7BA03# |
| | | | | ±0.25pF | GRM0222C1H8R7CA03# |
| | | | | ±0.5pF | GRM0222C1H8R7DA03# |
| | | | 8.8pF | ±0.05pF | GRM0222C1H8R8WA03# |
| | | | | ±0.1pF | GRM0222C1H8R8BA03# |
| | | | | ±0.25pF | GRM0222C1H8R8CA03# |
| | | | | ±0.5pF | GRM0222C1H8R8DA03# |
| | | | 8.9pF | ±0.05pF | GRM0222C1H8R9WA03# |
| | | | | ±0.1pF | GRM0222C1H8R9BA03# |
| | | | | ±0.25pF | GRM0222C1H8R9CA03# |
| | | | | ±0.5pF | GRM0222C1H8R9DA03# |
| | | | 9.0pF | ±0.05pF | GRM0222C1H9R0WA03# |
| | | | | ±0.1pF | GRM0222C1H9R0BA03# |
| | | | | ±0.25pF | GRM0222C1H9R0CA03# |
| | | | | ±0.5pF | GRM0222C1H9R0DA03# |
| | | | 9.1pF | ±0.05pF | GRM0222C1H9R1WA03# |
| | | | | ±0.1pF | GRM0222C1H9R1BA03# |
| | | | | ±0.25pF | GRM0222C1H9R1CA03# |
| | | | | ±0.5pF | GRM0222C1H9R1DA03# |
| | | | 9.2pF | ±0.05pF | GRM0222C1H9R2WA03# |
| | | | | ±0.1pF | GRM0222C1H9R2BA03# |
| | | | | ±0.25pF | GRM0222C1H9R2CA03# |
| | | | | ±0.5pF | GRM0222C1H9R2DA03# |
| | | | 9.3pF | ±0.05pF | GRM0222C1H9R3WA03# |
| | | | | ±0.1pF | GRM0222C1H9R3BA03# |
| | | | | ±0.25pF | GRM0222C1H9R3CA03# |
| | | | | ±0.5pF | GRM0222C1H9R3DA03# |
| | | | 9.4pF | ±0.05pF | GRM0222C1H9R4WA03# |
| | | | | ±0.1pF | GRM0222C1H9R4BA03# |
| | | | | ±0.25pF | GRM0222C1H9R4CA03# |
| | | | | ±0.5pF | GRM0222C1H9R4DA03# |
| | | | 9.5pF | ±0.05pF | GRM0222C1H9R5WA03# |
| | | | | ±0.1pF | GRM0222C1H9R5BA03# |
| | | | | ±0.25pF | GRM0222C1H9R5CA03# |
| | | | | ±0.5pF | GRM0222C1H9R5DA03# |
| | | | 9.6pF | ±0.05pF | GRM0222C1H9R6WA03# |
| | | | | ±0.1pF | GRM0222C1H9R6BA03# |
| | | | | ±0.25pF | GRM0222C1H9R6CA03# |
| | | | | ±0.5pF | GRM0222C1H9R6DA03# |
| | | | 9.7pF | ±0.05pF | GRM0222C1H9R7WA03# |
| | | | | ±0.1pF | GRM0222C1H9R7BA03# |
| | | | | ±0.25pF | GRM0222C1H9R7CA03# |
| | | | | ±0.5pF | GRM0222C1H9R7DA03# |
| | | | 9.8pF | ±0.05pF | GRM0222C1H9R8WA03# |
| | | | | ±0.1pF | GRM0222C1H9R8BA03# |
| 0.22mm | 50Vdc | CH | 9.8pF | ±0.25pF | GRM0222C1H9R8CA03# |
| | | | | ±0.5pF | GRM0222C1H9R8DA03# |
| | | | 9.9pF | ±0.05pF | GRM0222C1H9R9WA03# |
| | | | | ±0.1pF | GRM0222C1H9R9BA03# |
| | | | | ±0.25pF | GRM0222C1H9R9CA03# |
| | | | | ±0.5pF | GRM0222C1H9R9DA03# |
| | | | 10pF | ±2% | GRM0222C1H100GA03# |
| | | | | ±5% | GRM0222C1H100JA03# |
| | | | 11pF | ±2% | GRM0222C1H110GA03# |
| | | | | ±5% | GRM0222C1H110JA03# |
| | | | 12pF | ±2% | GRM0222C1H120GA03# |
| | | | | ±5% | GRM0222C1H120JA03# |
| | | | 13pF | ±2% | GRM0222C1H130GA03# |
| | | | | ±5% | GRM0222C1H130JA03# |
| | | | 15pF | ±2% | GRM0222C1H150GA03# |
| | | | | ±5% | GRM0222C1H150JA03# |
| | | | 16pF | ±2% | GRM0222C1H160GA03# |
| | | | | ±5% | GRM0222C1H160JA03# |
| | | | 17pF | ±5% | GRM0222C1H170JA02# |
| | | | 18pF | ±5% | GRM0222C1H180JA02# |
| | | | 19pF | ±5% | GRM0222C1H190JA02# |
| | | | 20pF | ±5% | GRM0222C1H200JA02# |
| | | | 21pF | ±5% | GRM0222C1H210JA02# |
| | | | 22pF | ±5% | GRM0222C1H220JA02# |
| | | | 23pF | ±5% | GRM0222C1H230JA02# |
| | | | 24pF | ±5% | GRM0222C1H240JA02# |
| | | | 27pF | ±5% | GRM0222C1H270JA02# |
| | | | 30pF | ±5% | GRM0222C1H300JA02# |
| | | | 33pF | ±5% | GRM0222C1H330JA02# |
| | | | 36pF | ±5% | GRM0222C1H360JA02# |
| | | | 39pF | ±5% | GRM0222C1H390JA02# |
| | | | 43pF | ±5% | GRM0222C1H430JA02# |
| | | | 47pF | ±5% | GRM0222C1H470JA02# |
| | | | 51pF | ±5% | GRM0222C1H510JA02# |
| | | | 56pF | ±5% | GRM0222C1H560JA02# |
| | | | 62pF | ±5% | GRM0222C1H620JA02# |
| | | | 68pF | ±5% | GRM0222C1H680JA02# |
| | | | 75pF | ±5% | GRM0222C1H750JA02# |
| | | | 82pF | ±5% | GRM0222C1H820JA02# |
| | | | 91pF | ±5% | GRM0222C1H910JA02# |
| | | | 100pF | ±5% | GRM0222C1H101JA02# |
| | 25Vdc | C0G | 120pF | ±5% | GRM0225C1E121JA02# |
| | | | 150pF | ±5% | GRM0225C1E151JA02# |
| | | | 180pF | ±5% | GRM0225C1E181JA02# |
| | | | 220pF | ±5% | GRM0225C1E221JA02# |
| | | CH | 120pF | ±5% | GRM0222C1E121JA02# |
| | | | 150pF | ±5% | GRM0222C1E151JA02# |
| | | | 180pF | ±5% | GRM0222C1E181JA02# |
| | | | 220pF | ±5% | GRM0222C1E221JA02# |
| | 16Vdc | C0G | 120pF | ±5% | GRM0225C1C121JA02# |
| | | | 150pF | ±5% | GRM0225C1C151JA02# |
| | | | 180pF | ±5% | GRM0225C1C181JA02# |
| | | | 220pF | ±5% | GRM0225C1C221JA02# |
| | | CH | 120pF | ±5% | GRM0222C1C121JA02# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.4×0.2mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.22mm | 16Vdc | CH | 150pF | ±5% | **GRM0222C1C151JA02#** | |
| | | | 180pF | ±5% | **GRM0222C1C181JA02#** | |
| | | | 220pF | ±5% | **GRM0222C1C221JA02#** | |

**0.6×0.3mm**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 100Vdc | C0G | 0.10pF | ±0.05pF | **GRM0335C2AR10WA01#** | |
| | | | 0.20pF | ±0.05pF | **GRM0335C2AR20WA01#** | |
| | | | | ±0.1pF | **GRM0335C2AR20BA01#** | |
| | | | 0.30pF | ±0.05pF | **GRM0335C2AR30WA01#** | |
| | | | | ±0.1pF | **GRM0335C2AR30BA01#** | |
| | | | 0.40pF | ±0.05pF | **GRM0335C2AR40WA01#** | |
| | | | | ±0.1pF | **GRM0335C2AR40BA01#** | |
| | | | 0.50pF | ±0.05pF | **GRM0335C2AR50WA01#** | |
| | | | | ±0.1pF | **GRM0335C2AR50BA01#** | |
| | | | 0.60pF | ±0.05pF | **GRM0335C2AR60WA01#** | |
| | | | | ±0.1pF | **GRM0335C2AR60BA01#** | |
| | | | 0.70pF | ±0.05pF | **GRM0335C2AR70WA01#** | |
| | | | | ±0.1pF | **GRM0335C2AR70BA01#** | |
| | | | 0.80pF | ±0.05pF | **GRM0335C2AR80WA01#** | |
| | | | | ±0.1pF | **GRM0335C2AR80BA01#** | |
| | | | 0.90pF | ±0.05pF | **GRM0335C2AR90WA01#** | |
| | | | | ±0.1pF | **GRM0335C2AR90BA01#** | |
| | | | 1.0pF | ±0.05pF | **GRM0335C2A1R0WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A1R0BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A1R0CA01#** | |
| | | | 1.1pF | ±0.05pF | **GRM0335C2A1R1WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A1R1BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A1R1CA01#** | |
| | | | 1.2pF | ±0.05pF | **GRM0335C2A1R2WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A1R2BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A1R2CA01#** | |
| | | | 1.3pF | ±0.05pF | **GRM0335C2A1R3WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A1R3BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A1R3CA01#** | |
| | | | 1.4pF | ±0.05pF | **GRM0335C2A1R4WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A1R4BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A1R4CA01#** | |
| | | | 1.5pF | ±0.05pF | **GRM0335C2A1R5WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A1R5BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A1R5CA01#** | |
| | | | 1.6pF | ±0.05pF | **GRM0335C2A1R6WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A1R6BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A1R6CA01#** | |
| | | | 1.7pF | ±0.05pF | **GRM0335C2A1R7WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A1R7BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A1R7CA01#** | |
| | | | 1.8pF | ±0.05pF | **GRM0335C2A1R8WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A1R8BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A1R8CA01#** | |
| | | | 1.9pF | ±0.05pF | **GRM0335C2A1R9WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A1R9BA01#** | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 100Vdc | C0G | 1.9pF | ±0.25pF | **GRM0335C2A1R9CA01#** | |
| | | | 2.0pF | ±0.05pF | **GRM0335C2A2R0WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A2R0BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A2R0CA01#** | |
| | | | 2.1pF | ±0.05pF | **GRM0335C2A2R1WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A2R1BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A2R1CA01#** | |
| | | | 2.2pF | ±0.05pF | **GRM0335C2A2R2WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A2R2BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A2R2CA01#** | |
| | | | 2.3pF | ±0.05pF | **GRM0335C2A2R3WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A2R3BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A2R3CA01#** | |
| | | | 2.4pF | ±0.05pF | **GRM0335C2A2R4WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A2R4BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A2R4CA01#** | |
| | | | 2.5pF | ±0.05pF | **GRM0335C2A2R5WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A2R5BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A2R5CA01#** | |
| | | | 2.6pF | ±0.05pF | **GRM0335C2A2R6WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A2R6BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A2R6CA01#** | |
| | | | 2.7pF | ±0.05pF | **GRM0335C2A2R7WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A2R7BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A2R7CA01#** | |
| | | | 2.8pF | ±0.05pF | **GRM0335C2A2R8WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A2R8BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A2R8CA01#** | |
| | | | 2.9pF | ±0.05pF | **GRM0335C2A2R9WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A2R9BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A2R9CA01#** | |
| | | | 3.0pF | ±0.05pF | **GRM0335C2A3R0WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A3R0BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A3R0CA01#** | |
| | | | 3.1pF | ±0.05pF | **GRM0335C2A3R1WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A3R1BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A3R1CA01#** | |
| | | | 3.2pF | ±0.05pF | **GRM0335C2A3R2WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A3R2BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A3R2CA01#** | |
| | | | 3.3pF | ±0.05pF | **GRM0335C2A3R3WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A3R3BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A3R3CA01#** | |
| | | | 3.4pF | ±0.05pF | **GRM0335C2A3R4WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A3R4BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A3R4CA01#** | |
| | | | 3.5pF | ±0.05pF | **GRM0335C2A3R5WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A3R5BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A3R5CA01#** | |
| | | | 3.6pF | ±0.05pF | **GRM0335C2A3R6WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A3R6BA01#** | |
| | | | | ±0.25pF | **GRM0335C2A3R6CA01#** | |
| | | | 3.7pF | ±0.05pF | **GRM0335C2A3R7WA01#** | |
| | | | | ±0.1pF | **GRM0335C2A3R7BA01#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.33mm | 100Vdc | C0G | 3.7pF | ±0.25pF | GRM0335C2A3R7CA01# |
| | | | 3.8pF | ±0.05pF | GRM0335C2A3R8WA01# |
| | | | | ±0.1pF | GRM0335C2A3R8BA01# |
| | | | | ±0.25pF | GRM0335C2A3R8CA01# |
| | | | 3.9pF | ±0.05pF | GRM0335C2A3R9WA01# |
| | | | | ±0.1pF | GRM0335C2A3R9BA01# |
| | | | | ±0.25pF | GRM0335C2A3R9CA01# |
| | | | 4.0pF | ±0.05pF | GRM0335C2A4R0WA01# |
| | | | | ±0.1pF | GRM0335C2A4R0BA01# |
| | | | | ±0.25pF | GRM0335C2A4R0CA01# |
| | | | 4.1pF | ±0.05pF | GRM0335C2A4R1WA01# |
| | | | | ±0.1pF | GRM0335C2A4R1BA01# |
| | | | | ±0.25pF | GRM0335C2A4R1CA01# |
| | | | 4.2pF | ±0.05pF | GRM0335C2A4R2WA01# |
| | | | | ±0.1pF | GRM0335C2A4R2BA01# |
| | | | | ±0.25pF | GRM0335C2A4R2CA01# |
| | | | 4.3pF | ±0.05pF | GRM0335C2A4R3WA01# |
| | | | | ±0.1pF | GRM0335C2A4R3BA01# |
| | | | | ±0.25pF | GRM0335C2A4R3CA01# |
| | | | 4.4pF | ±0.05pF | GRM0335C2A4R4WA01# |
| | | | | ±0.1pF | GRM0335C2A4R4BA01# |
| | | | | ±0.25pF | GRM0335C2A4R4CA01# |
| | | | 4.5pF | ±0.05pF | GRM0335C2A4R5WA01# |
| | | | | ±0.1pF | GRM0335C2A4R5BA01# |
| | | | | ±0.25pF | GRM0335C2A4R5CA01# |
| | | | 4.6pF | ±0.05pF | GRM0335C2A4R6WA01# |
| | | | | ±0.1pF | GRM0335C2A4R6BA01# |
| | | | | ±0.25pF | GRM0335C2A4R6CA01# |
| | | | 4.7pF | ±0.05pF | GRM0335C2A4R7WA01# |
| | | | | ±0.1pF | GRM0335C2A4R7BA01# |
| | | | | ±0.25pF | GRM0335C2A4R7CA01# |
| | | | 4.8pF | ±0.05pF | GRM0335C2A4R8WA01# |
| | | | | ±0.1pF | GRM0335C2A4R8BA01# |
| | | | | ±0.25pF | GRM0335C2A4R8CA01# |
| | | | 4.9pF | ±0.05pF | GRM0335C2A4R9WA01# |
| | | | | ±0.1pF | GRM0335C2A4R9BA01# |
| | | | | ±0.25pF | GRM0335C2A4R9CA01# |
| | | | 5.0pF | ±0.05pF | GRM0335C2A5R0WA01# |
| | | | | ±0.1pF | GRM0335C2A5R0BA01# |
| | | | | ±0.25pF | GRM0335C2A5R0CA01# |
| | | | 5.1pF | ±0.05pF | GRM0335C2A5R1WA01# |
| | | | | ±0.1pF | GRM0335C2A5R1BA01# |
| | | | | ±0.25pF | GRM0335C2A5R1CA01# |
| | | | | ±0.5pF | GRM0335C2A5R1DA01# |
| | | | 5.2pF | ±0.05pF | GRM0335C2A5R2WA01# |
| | | | | ±0.1pF | GRM0335C2A5R2BA01# |
| | | | | ±0.25pF | GRM0335C2A5R2CA01# |
| | | | | ±0.5pF | GRM0335C2A5R2DA01# |
| | | | 5.3pF | ±0.05pF | GRM0335C2A5R3WA01# |
| | | | | ±0.1pF | GRM0335C2A5R3BA01# |
| | | | | ±0.25pF | GRM0335C2A5R3CA01# |
| | | | | ±0.5pF | GRM0335C2A5R3DA01# |
| | | | 5.4pF | ±0.05pF | GRM0335C2A5R4WA01# |
| | | | | ±0.1pF | GRM0335C2A5R4BA01# |
| 0.33mm | 100Vdc | C0G | 5.4pF | ±0.25pF | GRM0335C2A5R4CA01# |
| | | | | ±0.5pF | GRM0335C2A5R4DA01# |
| | | | 5.5pF | ±0.05pF | GRM0335C2A5R5WA01# |
| | | | | ±0.1pF | GRM0335C2A5R5BA01# |
| | | | | ±0.25pF | GRM0335C2A5R5CA01# |
| | | | | ±0.5pF | GRM0335C2A5R5DA01# |
| | | | 5.6pF | ±0.05pF | GRM0335C2A5R6WA01# |
| | | | | ±0.1pF | GRM0335C2A5R6BA01# |
| | | | | ±0.25pF | GRM0335C2A5R6CA01# |
| | | | | ±0.5pF | GRM0335C2A5R6DA01# |
| | | | 5.7pF | ±0.05pF | GRM0335C2A5R7WA01# |
| | | | | ±0.1pF | GRM0335C2A5R7BA01# |
| | | | | ±0.25pF | GRM0335C2A5R7CA01# |
| | | | | ±0.5pF | GRM0335C2A5R7DA01# |
| | | | 5.8pF | ±0.05pF | GRM0335C2A5R8WA01# |
| | | | | ±0.1pF | GRM0335C2A5R8BA01# |
| | | | | ±0.25pF | GRM0335C2A5R8CA01# |
| | | | | ±0.5pF | GRM0335C2A5R8DA01# |
| | | | 5.9pF | ±0.05pF | GRM0335C2A5R9WA01# |
| | | | | ±0.1pF | GRM0335C2A5R9BA01# |
| | | | | ±0.25pF | GRM0335C2A5R9CA01# |
| | | | | ±0.5pF | GRM0335C2A5R9DA01# |
| | | | 6.0pF | ±0.05pF | GRM0335C2A6R0WA01# |
| | | | | ±0.1pF | GRM0335C2A6R0BA01# |
| | | | | ±0.25pF | GRM0335C2A6R0CA01# |
| | | | | ±0.5pF | GRM0335C2A6R0DA01# |
| | | | 6.1pF | ±0.05pF | GRM0335C2A6R1WA01# |
| | | | | ±0.1pF | GRM0335C2A6R1BA01# |
| | | | | ±0.25pF | GRM0335C2A6R1CA01# |
| | | | | ±0.5pF | GRM0335C2A6R1DA01# |
| | | | 6.2pF | ±0.05pF | GRM0335C2A6R2WA01# |
| | | | | ±0.1pF | GRM0335C2A6R2BA01# |
| | | | | ±0.25pF | GRM0335C2A6R2CA01# |
| | | | | ±0.5pF | GRM0335C2A6R2DA01# |
| | | | 6.3pF | ±0.05pF | GRM0335C2A6R3WA01# |
| | | | | ±0.1pF | GRM0335C2A6R3BA01# |
| | | | | ±0.25pF | GRM0335C2A6R3CA01# |
| | | | | ±0.5pF | GRM0335C2A6R3DA01# |
| | | | 6.4pF | ±0.05pF | GRM0335C2A6R4WA01# |
| | | | | ±0.1pF | GRM0335C2A6R4BA01# |
| | | | | ±0.25pF | GRM0335C2A6R4CA01# |
| | | | | ±0.5pF | GRM0335C2A6R4DA01# |
| | | | 6.5pF | ±0.05pF | GRM0335C2A6R5WA01# |
| | | | | ±0.1pF | GRM0335C2A6R5BA01# |
| | | | | ±0.25pF | GRM0335C2A6R5CA01# |
| | | | | ±0.5pF | GRM0335C2A6R5DA01# |
| | | | 6.6pF | ±0.05pF | GRM0335C2A6R6WA01# |
| | | | | ±0.1pF | GRM0335C2A6R6BA01# |
| | | | | ±0.25pF | GRM0335C2A6R6CA01# |
| | | | | ±0.5pF | GRM0335C2A6R6DA01# |
| | | | 6.7pF | ±0.05pF | GRM0335C2A6R7WA01# |
| | | | | ±0.1pF | GRM0335C2A6R7BA01# |
| | | | | ±0.25pF | GRM0335C2A6R7CA01# |
| | | | | ±0.5pF | GRM0335C2A6R7DA01# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.33mm | 100Vdc | C0G | 6.8pF | ±0.05pF | GRM0335C2A6R8WA01# |
| | | | | ±0.1pF | GRM0335C2A6R8BA01# |
| | | | | ±0.25pF | GRM0335C2A6R8CA01# |
| | | | | ±0.5pF | GRM0335C2A6R8DA01# |
| | | | 6.9pF | ±0.05pF | GRM0335C2A6R9WA01# |
| | | | | ±0.1pF | GRM0335C2A6R9BA01# |
| | | | | ±0.25pF | GRM0335C2A6R9CA01# |
| | | | | ±0.5pF | GRM0335C2A6R9DA01# |
| | | | 7.0pF | ±0.05pF | GRM0335C2A7R0WA01# |
| | | | | ±0.1pF | GRM0335C2A7R0BA01# |
| | | | | ±0.25pF | GRM0335C2A7R0CA01# |
| | | | | ±0.5pF | GRM0335C2A7R0DA01# |
| | | | 7.1pF | ±0.05pF | GRM0335C2A7R1WA01# |
| | | | | ±0.1pF | GRM0335C2A7R1BA01# |
| | | | | ±0.25pF | GRM0335C2A7R1CA01# |
| | | | | ±0.5pF | GRM0335C2A7R1DA01# |
| | | | 7.2pF | ±0.05pF | GRM0335C2A7R2WA01# |
| | | | | ±0.1pF | GRM0335C2A7R2BA01# |
| | | | | ±0.25pF | GRM0335C2A7R2CA01# |
| | | | | ±0.5pF | GRM0335C2A7R2DA01# |
| | | | 7.3pF | ±0.05pF | GRM0335C2A7R3WA01# |
| | | | | ±0.1pF | GRM0335C2A7R3BA01# |
| | | | | ±0.25pF | GRM0335C2A7R3CA01# |
| | | | | ±0.5pF | GRM0335C2A7R3DA01# |
| | | | 7.4pF | ±0.05pF | GRM0335C2A7R4WA01# |
| | | | | ±0.1pF | GRM0335C2A7R4BA01# |
| | | | | ±0.25pF | GRM0335C2A7R4CA01# |
| | | | | ±0.5pF | GRM0335C2A7R4DA01# |
| | | | 7.5pF | ±0.05pF | GRM0335C2A7R5WA01# |
| | | | | ±0.1pF | GRM0335C2A7R5BA01# |
| | | | | ±0.25pF | GRM0335C2A7R5CA01# |
| | | | | ±0.5pF | GRM0335C2A7R5DA01# |
| | | | 7.6pF | ±0.05pF | GRM0335C2A7R6WA01# |
| | | | | ±0.1pF | GRM0335C2A7R6BA01# |
| | | | | ±0.25pF | GRM0335C2A7R6CA01# |
| | | | | ±0.5pF | GRM0335C2A7R6DA01# |
| | | | 7.7pF | ±0.05pF | GRM0335C2A7R7WA01# |
| | | | | ±0.1pF | GRM0335C2A7R7BA01# |
| | | | | ±0.25pF | GRM0335C2A7R7CA01# |
| | | | | ±0.5pF | GRM0335C2A7R7DA01# |
| | | | 7.8pF | ±0.05pF | GRM0335C2A7R8WA01# |
| | | | | ±0.1pF | GRM0335C2A7R8BA01# |
| | | | | ±0.25pF | GRM0335C2A7R8CA01# |
| | | | | ±0.5pF | GRM0335C2A7R8DA01# |
| | | | 7.9pF | ±0.05pF | GRM0335C2A7R9WA01# |
| | | | | ±0.1pF | GRM0335C2A7R9BA01# |
| | | | | ±0.25pF | GRM0335C2A7R9CA01# |
| | | | | ±0.5pF | GRM0335C2A7R9DA01# |
| | | | 8.0pF | ±0.05pF | GRM0335C2A8R0WA01# |
| | | | | ±0.1pF | GRM0335C2A8R0BA01# |
| | | | | ±0.25pF | GRM0335C2A8R0CA01# |
| | | | | ±0.5pF | GRM0335C2A8R0DA01# |
| | | | 8.1pF | ±0.05pF | GRM0335C2A8R1WA01# |
| | | | | ±0.1pF | GRM0335C2A8R1BA01# |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.33mm | 100Vdc | C0G | 8.1pF | ±0.25pF | GRM0335C2A8R1CA01# |
| | | | | ±0.5pF | GRM0335C2A8R1DA01# |
| | | | 8.2pF | ±0.05pF | GRM0335C2A8R2WA01# |
| | | | | ±0.1pF | GRM0335C2A8R2BA01# |
| | | | | ±0.25pF | GRM0335C2A8R2CA01# |
| | | | | ±0.5pF | GRM0335C2A8R2DA01# |
| | | | 8.3pF | ±0.05pF | GRM0335C2A8R3WA01# |
| | | | | ±0.1pF | GRM0335C2A8R3BA01# |
| | | | | ±0.25pF | GRM0335C2A8R3CA01# |
| | | | | ±0.5pF | GRM0335C2A8R3DA01# |
| | | | 8.4pF | ±0.05pF | GRM0335C2A8R4WA01# |
| | | | | ±0.1pF | GRM0335C2A8R4BA01# |
| | | | | ±0.25pF | GRM0335C2A8R4CA01# |
| | | | | ±0.5pF | GRM0335C2A8R4DA01# |
| | | | 8.5pF | ±0.05pF | GRM0335C2A8R5WA01# |
| | | | | ±0.1pF | GRM0335C2A8R5BA01# |
| | | | | ±0.25pF | GRM0335C2A8R5CA01# |
| | | | | ±0.5pF | GRM0335C2A8R5DA01# |
| | | | 8.6pF | ±0.05pF | GRM0335C2A8R6WA01# |
| | | | | ±0.1pF | GRM0335C2A8R6BA01# |
| | | | | ±0.25pF | GRM0335C2A8R6CA01# |
| | | | | ±0.5pF | GRM0335C2A8R6DA01# |
| | | | 8.7pF | ±0.05pF | GRM0335C2A8R7WA01# |
| | | | | ±0.1pF | GRM0335C2A8R7BA01# |
| | | | | ±0.25pF | GRM0335C2A8R7CA01# |
| | | | | ±0.5pF | GRM0335C2A8R7DA01# |
| | | | 8.8pF | ±0.05pF | GRM0335C2A8R8WA01# |
| | | | | ±0.1pF | GRM0335C2A8R8BA01# |
| | | | | ±0.25pF | GRM0335C2A8R8CA01# |
| | | | | ±0.5pF | GRM0335C2A8R8DA01# |
| | | | 8.9pF | ±0.05pF | GRM0335C2A8R9WA01# |
| | | | | ±0.1pF | GRM0335C2A8R9BA01# |
| | | | | ±0.25pF | GRM0335C2A8R9CA01# |
| | | | | ±0.5pF | GRM0335C2A8R9DA01# |
| | | | 9.0pF | ±0.05pF | GRM0335C2A9R0WA01# |
| | | | | ±0.1pF | GRM0335C2A9R0BA01# |
| | | | | ±0.25pF | GRM0335C2A9R0CA01# |
| | | | | ±0.5pF | GRM0335C2A9R0DA01# |
| | | | 9.1pF | ±0.05pF | GRM0335C2A9R1WA01# |
| | | | | ±0.1pF | GRM0335C2A9R1BA01# |
| | | | | ±0.25pF | GRM0335C2A9R1CA01# |
| | | | | ±0.5pF | GRM0335C2A9R1DA01# |
| | | | 9.2pF | ±0.05pF | GRM0335C2A9R2WA01# |
| | | | | ±0.1pF | GRM0335C2A9R2BA01# |
| | | | | ±0.25pF | GRM0335C2A9R2CA01# |
| | | | | ±0.5pF | GRM0335C2A9R2DA01# |
| | | | 9.3pF | ±0.05pF | GRM0335C2A9R3WA01# |
| | | | | ±0.1pF | GRM0335C2A9R3BA01# |
| | | | | ±0.25pF | GRM0335C2A9R3CA01# |
| | | | | ±0.5pF | GRM0335C2A9R3DA01# |
| | | | 9.4pF | ±0.05pF | GRM0335C2A9R4WA01# |
| | | | | ±0.1pF | GRM0335C2A9R4BA01# |
| | | | | ±0.25pF | GRM0335C2A9R4CA01# |
| | | | | ±0.5pF | GRM0335C2A9R4DA01# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 100Vdc | C0G | 9.5pF | ±0.05pF | GRM0335C2A9R5WA01# | |
| | | | | ±0.1pF | GRM0335C2A9R5BA01# | |
| | | | | ±0.25pF | GRM0335C2A9R5CA01# | |
| | | | | ±0.5pF | GRM0335C2A9R5DA01# | |
| | | | 9.6pF | ±0.05pF | GRM0335C2A9R6WA01# | |
| | | | | ±0.1pF | GRM0335C2A9R6BA01# | |
| | | | | ±0.25pF | GRM0335C2A9R6CA01# | |
| | | | | ±0.5pF | GRM0335C2A9R6DA01# | |
| | | | 9.7pF | ±0.05pF | GRM0335C2A9R7WA01# | |
| | | | | ±0.1pF | GRM0335C2A9R7BA01# | |
| | | | | ±0.25pF | GRM0335C2A9R7CA01# | |
| | | | | ±0.5pF | GRM0335C2A9R7DA01# | |
| | | | 9.8pF | ±0.05pF | GRM0335C2A9R8WA01# | |
| | | | | ±0.1pF | GRM0335C2A9R8BA01# | |
| | | | | ±0.25pF | GRM0335C2A9R8CA01# | |
| | | | | ±0.5pF | GRM0335C2A9R8DA01# | |
| | | | 9.9pF | ±0.05pF | GRM0335C2A9R9WA01# | |
| | | | | ±0.1pF | GRM0335C2A9R9BA01# | |
| | | | | ±0.25pF | GRM0335C2A9R9CA01# | |
| | | | | ±0.5pF | GRM0335C2A9R9DA01# | |
| | | | 10pF | ±2% | GRM0335C2A100GA01# | |
| | | | | ±5% | GRM0335C2A100JA01# | |
| | | | 12pF | ±2% | GRM0335C2A120GA01# | |
| | | | | ±5% | GRM0335C2A120JA01# | |
| | | | 15pF | ±2% | GRM0335C2A150GA01# | |
| | | | | ±5% | GRM0335C2A150JA01# | |
| | | | 18pF | ±2% | GRM0335C2A180GA01# | |
| | | | | ±5% | GRM0335C2A180JA01# | |
| | | | 20pF | ±2% | GRM0335C2A200GA01# | |
| | | | | ±5% | GRM0335C2A200JA01# | |
| | | | 22pF | ±2% | GRM0335C2A220GA01# | |
| | | | | ±5% | GRM0335C2A220JA01# | |
| | | | 24pF | ±2% | GRM0335C2A240GA01# | |
| | | | | ±5% | GRM0335C2A240JA01# | |
| | | | 27pF | ±2% | GRM0335C2A270GA01# | |
| | | | | ±5% | GRM0335C2A270JA01# | |
| | | | 30pF | ±2% | GRM0335C2A300GA01# | |
| | | | | ±5% | GRM0335C2A300JA01# | |
| | | | 33pF | ±2% | GRM0335C2A330GA01# | |
| | | | | ±5% | GRM0335C2A330JA01# | |
| | | | 36pF | ±2% | GRM0335C2A360GA01# | |
| | | | | ±5% | GRM0335C2A360JA01# | |
| | | | 39pF | ±2% | GRM0335C2A390GA01# | |
| | | | | ±5% | GRM0335C2A390JA01# | |
| | | | 43pF | ±2% | GRM0335C2A430GA01# | |
| | | | | ±5% | GRM0335C2A430JA01# | |
| | | | 47pF | ±2% | GRM0335C2A470GA01# | |
| | | | | ±5% | GRM0335C2A470JA01# | |
| | | | 51pF | ±2% | GRM0335C2A510GA01# | |
| | | | | ±5% | GRM0335C2A510JA01# | |
| | | | 56pF | ±2% | GRM0335C2A560GA01# | |
| | | | | ±5% | GRM0335C2A560JA01# | |
| | | | 62pF | ±2% | GRM0335C2A620GA01# | |
| | | | | ±5% | GRM0335C2A620JA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 100Vdc | C0G | 68pF | ±2% | GRM0335C2A680GA01# | |
| | | | | ±5% | GRM0335C2A680JA01# | |
| | | | 75pF | ±2% | GRM0335C2A750GA01# | |
| | | | | ±5% | GRM0335C2A750JA01# | |
| | | | 82pF | ±2% | GRM0335C2A820GA01# | |
| | | | | ±5% | GRM0335C2A820JA01# | |
| | | | 91pF | ±2% | GRM0335C2A910GA01# | |
| | | | | ±5% | GRM0335C2A910JA01# | |
| | | | 100pF | ±2% | GRM0335C2A101GA01# | |
| | | | | ±5% | GRM0335C2A101JA01# | |
| | | CK | 0.10pF | ±0.05pF | GRM0334C2AR10WA01# | |
| | | | 0.20pF | ±0.05pF | GRM0334C2AR20WA01# | |
| | | | | ±0.1pF | GRM0334C2AR20BA01# | |
| | | | 0.30pF | ±0.05pF | GRM0334C2AR30WA01# | |
| | | | | ±0.1pF | GRM0334C2AR30BA01# | |
| | | | 0.40pF | ±0.05pF | GRM0334C2AR40WA01# | |
| | | | | ±0.1pF | GRM0334C2AR40BA01# | |
| | | | 0.50pF | ±0.05pF | GRM0334C2AR50WA01# | |
| | | | | ±0.1pF | GRM0334C2AR50BA01# | |
| | | | 0.60pF | ±0.05pF | GRM0334C2AR60WA01# | |
| | | | | ±0.1pF | GRM0334C2AR60BA01# | |
| | | | 0.70pF | ±0.05pF | GRM0334C2AR70WA01# | |
| | | | | ±0.1pF | GRM0334C2AR70BA01# | |
| | | | 0.80pF | ±0.05pF | GRM0334C2AR80WA01# | |
| | | | | ±0.1pF | GRM0334C2AR80BA01# | |
| | | | 0.90pF | ±0.05pF | GRM0334C2AR90WA01# | |
| | | | | ±0.1pF | GRM0334C2AR90BA01# | |
| | | | 1.0pF | ±0.05pF | GRM0334C2A1R0WA01# | |
| | | | | ±0.1pF | GRM0334C2A1R0BA01# | |
| | | | | ±0.25pF | GRM0334C2A1R0CA01# | |
| | | | 1.1pF | ±0.05pF | GRM0334C2A1R1WA01# | |
| | | | | ±0.1pF | GRM0334C2A1R1BA01# | |
| | | | | ±0.25pF | GRM0334C2A1R1CA01# | |
| | | | 1.2pF | ±0.05pF | GRM0334C2A1R2WA01# | |
| | | | | ±0.1pF | GRM0334C2A1R2BA01# | |
| | | | | ±0.25pF | GRM0334C2A1R2CA01# | |
| | | | 1.3pF | ±0.05pF | GRM0334C2A1R3WA01# | |
| | | | | ±0.1pF | GRM0334C2A1R3BA01# | |
| | | | | ±0.25pF | GRM0334C2A1R3CA01# | |
| | | | 1.4pF | ±0.05pF | GRM0334C2A1R4WA01# | |
| | | | | ±0.1pF | GRM0334C2A1R4BA01# | |
| | | | | ±0.25pF | GRM0334C2A1R4CA01# | |
| | | | 1.5pF | ±0.05pF | GRM0334C2A1R5WA01# | |
| | | | | ±0.1pF | GRM0334C2A1R5BA01# | |
| | | | | ±0.25pF | GRM0334C2A1R5CA01# | |
| | | | 1.6pF | ±0.05pF | GRM0334C2A1R6WA01# | |
| | | | | ±0.1pF | GRM0334C2A1R6BA01# | |
| | | | | ±0.25pF | GRM0334C2A1R6CA01# | |
| | | | 1.7pF | ±0.05pF | GRM0334C2A1R7WA01# | |
| | | | | ±0.1pF | GRM0334C2A1R7BA01# | |
| | | | | ±0.25pF | GRM0334C2A1R7CA01# | |
| | | | 1.8pF | ±0.05pF | GRM0334C2A1R8WA01# | |
| | | | | ±0.1pF | GRM0334C2A1R8BA01# | |
| | | | | ±0.25pF | GRM0334C2A1R8CA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 100Vdc | CK | 1.9pF | ±0.05pF | **GRM0334C2A1R9WA01#** | |
| | | | | ±0.1pF | **GRM0334C2A1R9BA01#** | |
| | | | | ±0.25pF | **GRM0334C2A1R9CA01#** | |
| | | | 2.0pF | ±0.05pF | **GRM0334C2A2R0WA01#** | |
| | | | | ±0.1pF | **GRM0334C2A2R0BA01#** | |
| | | | | ±0.25pF | **GRM0334C2A2R0CA01#** | |
| | | CJ | 2.1pF | ±0.05pF | **GRM0333C2A2R1WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A2R1BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A2R1CA01#** | |
| | | | 2.2pF | ±0.05pF | **GRM0333C2A2R2WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A2R2BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A2R2CA01#** | |
| | | | 2.3pF | ±0.05pF | **GRM0333C2A2R3WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A2R3BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A2R3CA01#** | |
| | | | 2.4pF | ±0.05pF | **GRM0333C2A2R4WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A2R4BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A2R4CA01#** | |
| | | | 2.5pF | ±0.05pF | **GRM0333C2A2R5WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A2R5BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A2R5CA01#** | |
| | | | 2.6pF | ±0.05pF | **GRM0333C2A2R6WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A2R6BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A2R6CA01#** | |
| | | | 2.7pF | ±0.05pF | **GRM0333C2A2R7WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A2R7BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A2R7CA01#** | |
| | | | 2.8pF | ±0.05pF | **GRM0333C2A2R8WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A2R8BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A2R8CA01#** | |
| | | | 2.9pF | ±0.05pF | **GRM0333C2A2R9WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A2R9BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A2R9CA01#** | |
| | | | 3.0pF | ±0.05pF | **GRM0333C2A3R0WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A3R0BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A3R0CA01#** | |
| | | | 3.1pF | ±0.05pF | **GRM0333C2A3R1WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A3R1BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A3R1CA01#** | |
| | | | 3.2pF | ±0.05pF | **GRM0333C2A3R2WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A3R2BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A3R2CA01#** | |
| | | | 3.3pF | ±0.05pF | **GRM0333C2A3R3WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A3R3BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A3R3CA01#** | |
| | | | 3.4pF | ±0.05pF | **GRM0333C2A3R4WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A3R4BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A3R4CA01#** | |
| | | | 3.5pF | ±0.05pF | **GRM0333C2A3R5WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A3R5BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A3R5CA01#** | |
| | | | 3.6pF | ±0.05pF | **GRM0333C2A3R6WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A3R6BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A3R6CA01#** | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 100Vdc | CJ | 3.7pF | ±0.05pF | **GRM0333C2A3R7WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A3R7BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A3R7CA01#** | |
| | | | 3.8pF | ±0.05pF | **GRM0333C2A3R8WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A3R8BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A3R8CA01#** | |
| | | | 3.9pF | ±0.05pF | **GRM0333C2A3R9WA01#** | |
| | | | | ±0.1pF | **GRM0333C2A3R9BA01#** | |
| | | | | ±0.25pF | **GRM0333C2A3R9CA01#** | |
| | | CH | 4.0pF | ±0.05pF | **GRM0332C2A4R0WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A4R0BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A4R0CA01#** | |
| | | | 4.1pF | ±0.05pF | **GRM0332C2A4R1WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A4R1BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A4R1CA01#** | |
| | | | 4.2pF | ±0.05pF | **GRM0332C2A4R2WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A4R2BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A4R2CA01#** | |
| | | | 4.3pF | ±0.05pF | **GRM0332C2A4R3WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A4R3BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A4R3CA01#** | |
| | | | 4.4pF | ±0.05pF | **GRM0332C2A4R4WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A4R4BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A4R4CA01#** | |
| | | | 4.5pF | ±0.05pF | **GRM0332C2A4R5WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A4R5BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A4R5CA01#** | |
| | | | 4.6pF | ±0.05pF | **GRM0332C2A4R6WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A4R6BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A4R6CA01#** | |
| | | | 4.7pF | ±0.05pF | **GRM0332C2A4R7WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A4R7BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A4R7CA01#** | |
| | | | 4.8pF | ±0.05pF | **GRM0332C2A4R8WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A4R8BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A4R8CA01#** | |
| | | | 4.9pF | ±0.05pF | **GRM0332C2A4R9WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A4R9BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A4R9CA01#** | |
| | | | 5.0pF | ±0.05pF | **GRM0332C2A5R0WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A5R0BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A5R0CA01#** | |
| | | | 5.1pF | ±0.05pF | **GRM0332C2A5R1WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A5R1BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A5R1CA01#** | |
| | | | | ±0.5pF | **GRM0332C2A5R1DA01#** | |
| | | | 5.2pF | ±0.05pF | **GRM0332C2A5R2WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A5R2BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A5R2CA01#** | |
| | | | | ±0.5pF | **GRM0332C2A5R2DA01#** | |
| | | | 5.3pF | ±0.05pF | **GRM0332C2A5R3WA01#** | |
| | | | | ±0.1pF | **GRM0332C2A5R3BA01#** | |
| | | | | ±0.25pF | **GRM0332C2A5R3CA01#** | |
| | | | | ±0.5pF | **GRM0332C2A5R3DA01#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 100Vdc | CH | 5.4pF | ±0.05pF | GRM0332C2A5R4WA01# | |
| | | | | ±0.1pF | GRM0332C2A5R4BA01# | |
| | | | | ±0.25pF | GRM0332C2A5R4CA01# | |
| | | | | ±0.5pF | GRM0332C2A5R4DA01# | |
| | | | 5.5pF | ±0.05pF | GRM0332C2A5R5WA01# | |
| | | | | ±0.1pF | GRM0332C2A5R5BA01# | |
| | | | | ±0.25pF | GRM0332C2A5R5CA01# | |
| | | | | ±0.5pF | GRM0332C2A5R5DA01# | |
| | | | 5.6pF | ±0.05pF | GRM0332C2A5R6WA01# | |
| | | | | ±0.1pF | GRM0332C2A5R6BA01# | |
| | | | | ±0.25pF | GRM0332C2A5R6CA01# | |
| | | | | ±0.5pF | GRM0332C2A5R6DA01# | |
| | | | 5.7pF | ±0.05pF | GRM0332C2A5R7WA01# | |
| | | | | ±0.1pF | GRM0332C2A5R7BA01# | |
| | | | | ±0.25pF | GRM0332C2A5R7CA01# | |
| | | | | ±0.5pF | GRM0332C2A5R7DA01# | |
| | | | 5.8pF | ±0.05pF | GRM0332C2A5R8WA01# | |
| | | | | ±0.1pF | GRM0332C2A5R8BA01# | |
| | | | | ±0.25pF | GRM0332C2A5R8CA01# | |
| | | | | ±0.5pF | GRM0332C2A5R8DA01# | |
| | | | 5.9pF | ±0.05pF | GRM0332C2A5R9WA01# | |
| | | | | ±0.1pF | GRM0332C2A5R9BA01# | |
| | | | | ±0.25pF | GRM0332C2A5R9CA01# | |
| | | | | ±0.5pF | GRM0332C2A5R9DA01# | |
| | | | 6.0pF | ±0.05pF | GRM0332C2A6R0WA01# | |
| | | | | ±0.1pF | GRM0332C2A6R0BA01# | |
| | | | | ±0.25pF | GRM0332C2A6R0CA01# | |
| | | | | ±0.5pF | GRM0332C2A6R0DA01# | |
| | | | 6.1pF | ±0.05pF | GRM0332C2A6R1WA01# | |
| | | | | ±0.1pF | GRM0332C2A6R1BA01# | |
| | | | | ±0.25pF | GRM0332C2A6R1CA01# | |
| | | | | ±0.5pF | GRM0332C2A6R1DA01# | |
| | | | 6.2pF | ±0.05pF | GRM0332C2A6R2WA01# | |
| | | | | ±0.1pF | GRM0332C2A6R2BA01# | |
| | | | | ±0.25pF | GRM0332C2A6R2CA01# | |
| | | | | ±0.5pF | GRM0332C2A6R2DA01# | |
| | | | 6.3pF | ±0.05pF | GRM0332C2A6R3WA01# | |
| | | | | ±0.1pF | GRM0332C2A6R3BA01# | |
| | | | | ±0.25pF | GRM0332C2A6R3CA01# | |
| | | | | ±0.5pF | GRM0332C2A6R3DA01# | |
| | | | 6.4pF | ±0.05pF | GRM0332C2A6R4WA01# | |
| | | | | ±0.1pF | GRM0332C2A6R4BA01# | |
| | | | | ±0.25pF | GRM0332C2A6R4CA01# | |
| | | | | ±0.5pF | GRM0332C2A6R4DA01# | |
| | | | 6.5pF | ±0.05pF | GRM0332C2A6R5WA01# | |
| | | | | ±0.1pF | GRM0332C2A6R5BA01# | |
| | | | | ±0.25pF | GRM0332C2A6R5CA01# | |
| | | | | ±0.5pF | GRM0332C2A6R5DA01# | |
| | | | 6.6pF | ±0.05pF | GRM0332C2A6R6WA01# | |
| | | | | ±0.1pF | GRM0332C2A6R6BA01# | |
| | | | | ±0.25pF | GRM0332C2A6R6CA01# | |
| | | | | ±0.5pF | GRM0332C2A6R6DA01# | |
| | | | 6.7pF | ±0.05pF | GRM0332C2A6R7WA01# | |
| | | | | ±0.1pF | GRM0332C2A6R7BA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 100Vdc | CH | 6.7pF | ±0.25pF | GRM0332C2A6R7CA01# | |
| | | | | ±0.5pF | GRM0332C2A6R7DA01# | |
| | | | 6.8pF | ±0.05pF | GRM0332C2A6R8WA01# | |
| | | | | ±0.1pF | GRM0332C2A6R8BA01# | |
| | | | | ±0.25pF | GRM0332C2A6R8CA01# | |
| | | | | ±0.5pF | GRM0332C2A6R8DA01# | |
| | | | 6.9pF | ±0.05pF | GRM0332C2A6R9WA01# | |
| | | | | ±0.1pF | GRM0332C2A6R9BA01# | |
| | | | | ±0.25pF | GRM0332C2A6R9CA01# | |
| | | | | ±0.5pF | GRM0332C2A6R9DA01# | |
| | | | 7.0pF | ±0.05pF | GRM0332C2A7R0WA01# | |
| | | | | ±0.1pF | GRM0332C2A7R0BA01# | |
| | | | | ±0.25pF | GRM0332C2A7R0CA01# | |
| | | | | ±0.5pF | GRM0332C2A7R0DA01# | |
| | | | 7.1pF | ±0.05pF | GRM0332C2A7R1WA01# | |
| | | | | ±0.1pF | GRM0332C2A7R1BA01# | |
| | | | | ±0.25pF | GRM0332C2A7R1CA01# | |
| | | | | ±0.5pF | GRM0332C2A7R1DA01# | |
| | | | 7.2pF | ±0.05pF | GRM0332C2A7R2WA01# | |
| | | | | ±0.1pF | GRM0332C2A7R2BA01# | |
| | | | | ±0.25pF | GRM0332C2A7R2CA01# | |
| | | | | ±0.5pF | GRM0332C2A7R2DA01# | |
| | | | 7.3pF | ±0.05pF | GRM0332C2A7R3WA01# | |
| | | | | ±0.1pF | GRM0332C2A7R3BA01# | |
| | | | | ±0.25pF | GRM0332C2A7R3CA01# | |
| | | | | ±0.5pF | GRM0332C2A7R3DA01# | |
| | | | 7.4pF | ±0.05pF | GRM0332C2A7R4WA01# | |
| | | | | ±0.1pF | GRM0332C2A7R4BA01# | |
| | | | | ±0.25pF | GRM0332C2A7R4CA01# | |
| | | | | ±0.5pF | GRM0332C2A7R4DA01# | |
| | | | 7.5pF | ±0.05pF | GRM0332C2A7R5WA01# | |
| | | | | ±0.1pF | GRM0332C2A7R5BA01# | |
| | | | | ±0.25pF | GRM0332C2A7R5CA01# | |
| | | | | ±0.5pF | GRM0332C2A7R5DA01# | |
| | | | 7.6pF | ±0.05pF | GRM0332C2A7R6WA01# | |
| | | | | ±0.1pF | GRM0332C2A7R6BA01# | |
| | | | | ±0.25pF | GRM0332C2A7R6CA01# | |
| | | | | ±0.5pF | GRM0332C2A7R6DA01# | |
| | | | 7.7pF | ±0.05pF | GRM0332C2A7R7WA01# | |
| | | | | ±0.1pF | GRM0332C2A7R7BA01# | |
| | | | | ±0.25pF | GRM0332C2A7R7CA01# | |
| | | | | ±0.5pF | GRM0332C2A7R7DA01# | |
| | | | 7.8pF | ±0.05pF | GRM0332C2A7R8WA01# | |
| | | | | ±0.1pF | GRM0332C2A7R8BA01# | |
| | | | | ±0.25pF | GRM0332C2A7R8CA01# | |
| | | | | ±0.5pF | GRM0332C2A7R8DA01# | |
| | | | 7.9pF | ±0.05pF | GRM0332C2A7R9WA01# | |
| | | | | ±0.1pF | GRM0332C2A7R9BA01# | |
| | | | | ±0.25pF | GRM0332C2A7R9CA01# | |
| | | | | ±0.5pF | GRM0332C2A7R9DA01# | |
| | | | 8.0pF | ±0.05pF | GRM0332C2A8R0WA01# | |
| | | | | ±0.1pF | GRM0332C2A8R0BA01# | |
| | | | | ±0.25pF | GRM0332C2A8R0CA01# | |
| | | | | ±0.5pF | GRM0332C2A8R0DA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 100Vdc | CH | 8.1pF | ±0.05pF | GRM0332C2A8R1WA01# | |
| | | | | ±0.1pF | GRM0332C2A8R1BA01# | |
| | | | | ±0.25pF | GRM0332C2A8R1CA01# | |
| | | | | ±0.5pF | GRM0332C2A8R1DA01# | |
| | | | 8.2pF | ±0.05pF | GRM0332C2A8R2WA01# | |
| | | | | ±0.1pF | GRM0332C2A8R2BA01# | |
| | | | | ±0.25pF | GRM0332C2A8R2CA01# | |
| | | | | ±0.5pF | GRM0332C2A8R2DA01# | |
| | | | 8.3pF | ±0.05pF | GRM0332C2A8R3WA01# | |
| | | | | ±0.1pF | GRM0332C2A8R3BA01# | |
| | | | | ±0.25pF | GRM0332C2A8R3CA01# | |
| | | | | ±0.5pF | GRM0332C2A8R3DA01# | |
| | | | 8.4pF | ±0.05pF | GRM0332C2A8R4WA01# | |
| | | | | ±0.1pF | GRM0332C2A8R4BA01# | |
| | | | | ±0.25pF | GRM0332C2A8R4CA01# | |
| | | | | ±0.5pF | GRM0332C2A8R4DA01# | |
| | | | 8.5pF | ±0.05pF | GRM0332C2A8R5WA01# | |
| | | | | ±0.1pF | GRM0332C2A8R5BA01# | |
| | | | | ±0.25pF | GRM0332C2A8R5CA01# | |
| | | | | ±0.5pF | GRM0332C2A8R5DA01# | |
| | | | 8.6pF | ±0.05pF | GRM0332C2A8R6WA01# | |
| | | | | ±0.1pF | GRM0332C2A8R6BA01# | |
| | | | | ±0.25pF | GRM0332C2A8R6CA01# | |
| | | | | ±0.5pF | GRM0332C2A8R6DA01# | |
| | | | 8.7pF | ±0.05pF | GRM0332C2A8R7WA01# | |
| | | | | ±0.1pF | GRM0332C2A8R7BA01# | |
| | | | | ±0.25pF | GRM0332C2A8R7CA01# | |
| | | | | ±0.5pF | GRM0332C2A8R7DA01# | |
| | | | 8.8pF | ±0.05pF | GRM0332C2A8R8WA01# | |
| | | | | ±0.1pF | GRM0332C2A8R8BA01# | |
| | | | | ±0.25pF | GRM0332C2A8R8CA01# | |
| | | | | ±0.5pF | GRM0332C2A8R8DA01# | |
| | | | 8.9pF | ±0.05pF | GRM0332C2A8R9WA01# | |
| | | | | ±0.1pF | GRM0332C2A8R9BA01# | |
| | | | | ±0.25pF | GRM0332C2A8R9CA01# | |
| | | | | ±0.5pF | GRM0332C2A8R9DA01# | |
| | | | 9.0pF | ±0.05pF | GRM0332C2A9R0WA01# | |
| | | | | ±0.1pF | GRM0332C2A9R0BA01# | |
| | | | | ±0.25pF | GRM0332C2A9R0CA01# | |
| | | | | ±0.5pF | GRM0332C2A9R0DA01# | |
| | | | 9.1pF | ±0.05pF | GRM0332C2A9R1WA01# | |
| | | | | ±0.1pF | GRM0332C2A9R1BA01# | |
| | | | | ±0.25pF | GRM0332C2A9R1CA01# | |
| | | | | ±0.5pF | GRM0332C2A9R1DA01# | |
| | | | 9.2pF | ±0.05pF | GRM0332C2A9R2WA01# | |
| | | | | ±0.1pF | GRM0332C2A9R2BA01# | |
| | | | | ±0.25pF | GRM0332C2A9R2CA01# | |
| | | | | ±0.5pF | GRM0332C2A9R2DA01# | |
| | | | 9.3pF | ±0.05pF | GRM0332C2A9R3WA01# | |
| | | | | ±0.1pF | GRM0332C2A9R3BA01# | |
| | | | | ±0.25pF | GRM0332C2A9R3CA01# | |
| | | | | ±0.5pF | GRM0332C2A9R3DA01# | |
| | | | 9.4pF | ±0.05pF | GRM0332C2A9R4WA01# | |
| | | | | ±0.1pF | GRM0332C2A9R4BA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 100Vdc | CH | 9.4pF | ±0.25pF | GRM0332C2A9R4CA01# | |
| | | | | ±0.5pF | GRM0332C2A9R4DA01# | |
| | | | 9.5pF | ±0.05pF | GRM0332C2A9R5WA01# | |
| | | | | ±0.1pF | GRM0332C2A9R5BA01# | |
| | | | | ±0.25pF | GRM0332C2A9R5CA01# | |
| | | | | ±0.5pF | GRM0332C2A9R5DA01# | |
| | | | 9.6pF | ±0.05pF | GRM0332C2A9R6WA01# | |
| | | | | ±0.1pF | GRM0332C2A9R6BA01# | |
| | | | | ±0.25pF | GRM0332C2A9R6CA01# | |
| | | | | ±0.5pF | GRM0332C2A9R6DA01# | |
| | | | 9.7pF | ±0.05pF | GRM0332C2A9R7WA01# | |
| | | | | ±0.1pF | GRM0332C2A9R7BA01# | |
| | | | | ±0.25pF | GRM0332C2A9R7CA01# | |
| | | | | ±0.5pF | GRM0332C2A9R7DA01# | |
| | | | 9.8pF | ±0.05pF | GRM0332C2A9R8WA01# | |
| | | | | ±0.1pF | GRM0332C2A9R8BA01# | |
| | | | | ±0.25pF | GRM0332C2A9R8CA01# | |
| | | | | ±0.5pF | GRM0332C2A9R8DA01# | |
| | | | 9.9pF | ±0.05pF | GRM0332C2A9R9WA01# | |
| | | | | ±0.1pF | GRM0332C2A9R9BA01# | |
| | | | | ±0.25pF | GRM0332C2A9R9CA01# | |
| | | | | ±0.5pF | GRM0332C2A9R9DA01# | |
| | | | 10pF | ±2% | GRM0332C2A100GA01# | |
| | | | | ±5% | GRM0332C2A100JA01# | |
| | | | 12pF | ±2% | GRM0332C2A120GA01# | |
| | | | | ±5% | GRM0332C2A120JA01# | |
| | | | 15pF | ±2% | GRM0332C2A150GA01# | |
| | | | | ±5% | GRM0332C2A150JA01# | |
| | | | 18pF | ±2% | GRM0332C2A180GA01# | |
| | | | | ±5% | GRM0332C2A180JA01# | |
| | | | 20pF | ±2% | GRM0332C2A200GA01# | |
| | | | | ±5% | GRM0332C2A200JA01# | |
| | | | 22pF | ±2% | GRM0332C2A220GA01# | |
| | | | | ±5% | GRM0332C2A220JA01# | |
| | | | 24pF | ±2% | GRM0332C2A240GA01# | |
| | | | | ±5% | GRM0332C2A240JA01# | |
| | | | 27pF | ±2% | GRM0332C2A270GA01# | |
| | | | | ±5% | GRM0332C2A270JA01# | |
| | | | 30pF | ±2% | GRM0332C2A300GA01# | |
| | | | | ±5% | GRM0332C2A300JA01# | |
| | | | 33pF | ±2% | GRM0332C2A330GA01# | |
| | | | | ±5% | GRM0332C2A330JA01# | |
| | | | 36pF | ±2% | GRM0332C2A360GA01# | |
| | | | | ±5% | GRM0332C2A360JA01# | |
| | | | 39pF | ±2% | GRM0332C2A390GA01# | |
| | | | | ±5% | GRM0332C2A390JA01# | |
| | | | 43pF | ±2% | GRM0332C2A430GA01# | |
| | | | | ±5% | GRM0332C2A430JA01# | |
| | | | 47pF | ±2% | GRM0332C2A470GA01# | |
| | | | | ±5% | GRM0332C2A470JA01# | |
| | | | 51pF | ±2% | GRM0332C2A510GA01# | |
| | | | | ±5% | GRM0332C2A510JA01# | |
| | | | 56pF | ±2% | GRM0332C2A560GA01# | |
| | | | | ±5% | GRM0332C2A560JA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.33mm | 100Vdc | CH | 62pF | ±2% | GRM0332C2A620GA01# |
| | | | | ±5% | GRM0332C2A620JA01# |
| | | | 68pF | ±2% | GRM0332C2A680GA01# |
| | | | | ±5% | GRM0332C2A680JA01# |
| | | | 75pF | ±2% | GRM0332C2A750GA01# |
| | | | | ±5% | GRM0332C2A750JA01# |
| | | | 82pF | ±2% | GRM0332C2A820GA01# |
| | | | | ±5% | GRM0332C2A820JA01# |
| | | | 91pF | ±2% | GRM0332C2A910GA01# |
| | | | | ±5% | GRM0332C2A910JA01# |
| | | | 100pF | ±2% | GRM0332C2A101GA01# |
| | | | | ±5% | GRM0332C2A101JA01# |
| | 50Vdc | C0G | 0.10pF | ±0.05pF | GRM0335C1HR10WA01# |
| | | | 0.20pF | ±0.05pF | GRM0335C1HR20WA01# |
| | | | | ±0.1pF | GRM0335C1HR20BA01# |
| | | | 0.30pF | ±0.05pF | GRM0335C1HR30WA01# |
| | | | | ±0.1pF | GRM0335C1HR30BA01# |
| | | | 0.40pF | ±0.05pF | GRM0335C1HR40WA01# |
| | | | | ±0.1pF | GRM0335C1HR40BA01# |
| | | | 0.50pF | ±0.05pF | GRM0335C1HR50WA01# |
| | | | | ±0.1pF | GRM0335C1HR50BA01# |
| | | | 0.60pF | ±0.05pF | GRM0335C1HR60WA01# |
| | | | | ±0.1pF | GRM0335C1HR60BA01# |
| | | | 0.70pF | ±0.05pF | GRM0335C1HR70WA01# |
| | | | | ±0.1pF | GRM0335C1HR70BA01# |
| | | | 0.80pF | ±0.05pF | GRM0335C1HR80WA01# |
| | | | | ±0.1pF | GRM0335C1HR80BA01# |
| | | | 0.90pF | ±0.05pF | GRM0335C1HR90WA01# |
| | | | | ±0.1pF | GRM0335C1HR90BA01# |
| | | | 1.0pF | ±0.05pF | GRM0335C1H1R0WA01# |
| | | | | ±0.1pF | GRM0335C1H1R0BA01# |
| | | | | ±0.25pF | GRM0335C1H1R0CA01# |
| | | | 1.1pF | ±0.05pF | GRM0335C1H1R1WA01# |
| | | | | ±0.1pF | GRM0335C1H1R1BA01# |
| | | | | ±0.25pF | GRM0335C1H1R1CA01# |
| | | | 1.2pF | ±0.05pF | GRM0335C1H1R2WA01# |
| | | | | ±0.1pF | GRM0335C1H1R2BA01# |
| | | | | ±0.25pF | GRM0335C1H1R2CA01# |
| | | | 1.3pF | ±0.05pF | GRM0335C1H1R3WA01# |
| | | | | ±0.1pF | GRM0335C1H1R3BA01# |
| | | | | ±0.25pF | GRM0335C1H1R3CA01# |
| | | | 1.4pF | ±0.05pF | GRM0335C1H1R4WA01# |
| | | | | ±0.1pF | GRM0335C1H1R4BA01# |
| | | | | ±0.25pF | GRM0335C1H1R4CA01# |
| | | | 1.5pF | ±0.05pF | GRM0335C1H1R5WA01# |
| | | | | ±0.1pF | GRM0335C1H1R5BA01# |
| | | | | ±0.25pF | GRM0335C1H1R5CA01# |
| | | | 1.6pF | ±0.05pF | GRM0335C1H1R6WA01# |
| | | | | ±0.1pF | GRM0335C1H1R6BA01# |
| | | | | ±0.25pF | GRM0335C1H1R6CA01# |
| | | | 1.7pF | ±0.05pF | GRM0335C1H1R7WA01# |
| | | | | ±0.1pF | GRM0335C1H1R7BA01# |
| | | | | ±0.25pF | GRM0335C1H1R7CA01# |
| | | | 1.8pF | ±0.05pF | GRM0335C1H1R8WA01# |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.33mm | 50Vdc | C0G | 1.8pF | ±0.1pF | GRM0335C1H1R8BA01# |
| | | | | ±0.25pF | GRM0335C1H1R8CA01# |
| | | | 1.9pF | ±0.05pF | GRM0335C1H1R9WA01# |
| | | | | ±0.1pF | GRM0335C1H1R9BA01# |
| | | | | ±0.25pF | GRM0335C1H1R9CA01# |
| | | | 2.0pF | ±0.05pF | GRM0335C1H2R0WA01# |
| | | | | ±0.1pF | GRM0335C1H2R0BA01# |
| | | | | ±0.25pF | GRM0335C1H2R0CA01# |
| | | | 2.1pF | ±0.05pF | GRM0335C1H2R1WA01# |
| | | | | ±0.1pF | GRM0335C1H2R1BA01# |
| | | | | ±0.25pF | GRM0335C1H2R1CA01# |
| | | | 2.2pF | ±0.05pF | GRM0335C1H2R2WA01# |
| | | | | ±0.1pF | GRM0335C1H2R2BA01# |
| | | | | ±0.25pF | GRM0335C1H2R2CA01# |
| | | | 2.3pF | ±0.05pF | GRM0335C1H2R3WA01# |
| | | | | ±0.1pF | GRM0335C1H2R3BA01# |
| | | | | ±0.25pF | GRM0335C1H2R3CA01# |
| | | | 2.4pF | ±0.05pF | GRM0335C1H2R4WA01# |
| | | | | ±0.1pF | GRM0335C1H2R4BA01# |
| | | | | ±0.25pF | GRM0335C1H2R4CA01# |
| | | | 2.5pF | ±0.05pF | GRM0335C1H2R5WA01# |
| | | | | ±0.1pF | GRM0335C1H2R5BA01# |
| | | | | ±0.25pF | GRM0335C1H2R5CA01# |
| | | | 2.6pF | ±0.05pF | GRM0335C1H2R6WA01# |
| | | | | ±0.1pF | GRM0335C1H2R6BA01# |
| | | | | ±0.25pF | GRM0335C1H2R6CA01# |
| | | | 2.7pF | ±0.05pF | GRM0335C1H2R7WA01# |
| | | | | ±0.1pF | GRM0335C1H2R7BA01# |
| | | | | ±0.25pF | GRM0335C1H2R7CA01# |
| | | | 2.8pF | ±0.05pF | GRM0335C1H2R8WA01# |
| | | | | ±0.1pF | GRM0335C1H2R8BA01# |
| | | | | ±0.25pF | GRM0335C1H2R8CA01# |
| | | | 2.9pF | ±0.05pF | GRM0335C1H2R9WA01# |
| | | | | ±0.1pF | GRM0335C1H2R9BA01# |
| | | | | ±0.25pF | GRM0335C1H2R9CA01# |
| | | | 3.0pF | ±0.05pF | GRM0335C1H3R0WA01# |
| | | | | ±0.1pF | GRM0335C1H3R0BA01# |
| | | | | ±0.25pF | GRM0335C1H3R0CA01# |
| | | | 3.1pF | ±0.05pF | GRM0335C1H3R1WA01# |
| | | | | ±0.1pF | GRM0335C1H3R1BA01# |
| | | | | ±0.25pF | GRM0335C1H3R1CA01# |
| | | | 3.2pF | ±0.05pF | GRM0335C1H3R2WA01# |
| | | | | ±0.1pF | GRM0335C1H3R2BA01# |
| | | | | ±0.25pF | GRM0335C1H3R2CA01# |
| | | | 3.3pF | ±0.05pF | GRM0335C1H3R3WA01# |
| | | | | ±0.1pF | GRM0335C1H3R3BA01# |
| | | | | ±0.25pF | GRM0335C1H3R3CA01# |
| | | | 3.4pF | ±0.05pF | GRM0335C1H3R4WA01# |
| | | | | ±0.1pF | GRM0335C1H3R4BA01# |
| | | | | ±0.25pF | GRM0335C1H3R4CA01# |
| | | | 3.5pF | ±0.05pF | GRM0335C1H3R5WA01# |
| | | | | ±0.1pF | GRM0335C1H3R5BA01# |
| | | | | ±0.25pF | GRM0335C1H3R5CA01# |
| | | | 3.6pF | ±0.05pF | GRM0335C1H3R6WA01# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.33mm | 50Vdc | C0G | 3.6pF | ±0.1pF | GRM0335C1H3R6BA01# |
| | | | | ±0.25pF | GRM0335C1H3R6CA01# |
| | | | 3.7pF | ±0.05pF | GRM0335C1H3R7WA01# |
| | | | | ±0.1pF | GRM0335C1H3R7BA01# |
| | | | | ±0.25pF | GRM0335C1H3R7CA01# |
| | | | 3.8pF | ±0.05pF | GRM0335C1H3R8WA01# |
| | | | | ±0.1pF | GRM0335C1H3R8BA01# |
| | | | | ±0.25pF | GRM0335C1H3R8CA01# |
| | | | 3.9pF | ±0.05pF | GRM0335C1H3R9WA01# |
| | | | | ±0.1pF | GRM0335C1H3R9BA01# |
| | | | | ±0.25pF | GRM0335C1H3R9CA01# |
| | | | 4.0pF | ±0.05pF | GRM0335C1H4R0WA01# |
| | | | | ±0.1pF | GRM0335C1H4R0BA01# |
| | | | | ±0.25pF | GRM0335C1H4R0CA01# |
| | | | 4.1pF | ±0.05pF | GRM0335C1H4R1WA01# |
| | | | | ±0.1pF | GRM0335C1H4R1BA01# |
| | | | | ±0.25pF | GRM0335C1H4R1CA01# |
| | | | 4.2pF | ±0.05pF | GRM0335C1H4R2WA01# |
| | | | | ±0.1pF | GRM0335C1H4R2BA01# |
| | | | | ±0.25pF | GRM0335C1H4R2CA01# |
| | | | 4.3pF | ±0.05pF | GRM0335C1H4R3WA01# |
| | | | | ±0.1pF | GRM0335C1H4R3BA01# |
| | | | | ±0.25pF | GRM0335C1H4R3CA01# |
| | | | 4.4pF | ±0.05pF | GRM0335C1H4R4WA01# |
| | | | | ±0.1pF | GRM0335C1H4R4BA01# |
| | | | | ±0.25pF | GRM0335C1H4R4CA01# |
| | | | 4.5pF | ±0.05pF | GRM0335C1H4R5WA01# |
| | | | | ±0.1pF | GRM0335C1H4R5BA01# |
| | | | | ±0.25pF | GRM0335C1H4R5CA01# |
| | | | 4.6pF | ±0.05pF | GRM0335C1H4R6WA01# |
| | | | | ±0.1pF | GRM0335C1H4R6BA01# |
| | | | | ±0.25pF | GRM0335C1H4R6CA01# |
| | | | 4.7pF | ±0.05pF | GRM0335C1H4R7WA01# |
| | | | | ±0.1pF | GRM0335C1H4R7BA01# |
| | | | | ±0.25pF | GRM0335C1H4R7CA01# |
| | | | 4.8pF | ±0.05pF | GRM0335C1H4R8WA01# |
| | | | | ±0.1pF | GRM0335C1H4R8BA01# |
| | | | | ±0.25pF | GRM0335C1H4R8CA01# |
| | | | 4.9pF | ±0.05pF | GRM0335C1H4R9WA01# |
| | | | | ±0.1pF | GRM0335C1H4R9BA01# |
| | | | | ±0.25pF | GRM0335C1H4R9CA01# |
| | | | 5.0pF | ±0.05pF | GRM0335C1H5R0WA01# |
| | | | | ±0.1pF | GRM0335C1H5R0BA01# |
| | | | | ±0.25pF | GRM0335C1H5R0CA01# |
| | | | 5.1pF | ±0.05pF | GRM0335C1H5R1WA01# |
| | | | | ±0.1pF | GRM0335C1H5R1BA01# |
| | | | | ±0.25pF | GRM0335C1H5R1CA01# |
| | | | | ±0.5pF | GRM0335C1H5R1DA01# |
| | | | 5.2pF | ±0.05pF | GRM0335C1H5R2WA01# |
| | | | | ±0.1pF | GRM0335C1H5R2BA01# |
| | | | | ±0.25pF | GRM0335C1H5R2CA01# |
| | | | | ±0.5pF | GRM0335C1H5R2DA01# |
| | | | 5.3pF | ±0.05pF | GRM0335C1H5R3WA01# |
| | | | | ±0.1pF | GRM0335C1H5R3BA01# |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.33mm | 50Vdc | C0G | 5.3pF | ±0.25pF | GRM0335C1H5R3CA01# |
| | | | | ±0.5pF | GRM0335C1H5R3DA01# |
| | | | 5.4pF | ±0.05pF | GRM0335C1H5R4WA01# |
| | | | | ±0.1pF | GRM0335C1H5R4BA01# |
| | | | | ±0.25pF | GRM0335C1H5R4CA01# |
| | | | | ±0.5pF | GRM0335C1H5R4DA01# |
| | | | 5.5pF | ±0.05pF | GRM0335C1H5R5WA01# |
| | | | | ±0.1pF | GRM0335C1H5R5BA01# |
| | | | | ±0.25pF | GRM0335C1H5R5CA01# |
| | | | | ±0.5pF | GRM0335C1H5R5DA01# |
| | | | 5.6pF | ±0.05pF | GRM0335C1H5R6WA01# |
| | | | | ±0.1pF | GRM0335C1H5R6BA01# |
| | | | | ±0.25pF | GRM0335C1H5R6CA01# |
| | | | | ±0.5pF | GRM0335C1H5R6DA01# |
| | | | 5.7pF | ±0.05pF | GRM0335C1H5R7WA01# |
| | | | | ±0.1pF | GRM0335C1H5R7BA01# |
| | | | | ±0.25pF | GRM0335C1H5R7CA01# |
| | | | | ±0.5pF | GRM0335C1H5R7DA01# |
| | | | 5.8pF | ±0.05pF | GRM0335C1H5R8WA01# |
| | | | | ±0.1pF | GRM0335C1H5R8BA01# |
| | | | | ±0.25pF | GRM0335C1H5R8CA01# |
| | | | | ±0.5pF | GRM0335C1H5R8DA01# |
| | | | 5.9pF | ±0.05pF | GRM0335C1H5R9WA01# |
| | | | | ±0.1pF | GRM0335C1H5R9BA01# |
| | | | | ±0.25pF | GRM0335C1H5R9CA01# |
| | | | | ±0.5pF | GRM0335C1H5R9DA01# |
| | | | 6.0pF | ±0.05pF | GRM0335C1H6R0WA01# |
| | | | | ±0.1pF | GRM0335C1H6R0BA01# |
| | | | | ±0.25pF | GRM0335C1H6R0CA01# |
| | | | | ±0.5pF | GRM0335C1H6R0DA01# |
| | | | 6.1pF | ±0.05pF | GRM0335C1H6R1WA01# |
| | | | | ±0.1pF | GRM0335C1H6R1BA01# |
| | | | | ±0.25pF | GRM0335C1H6R1CA01# |
| | | | | ±0.5pF | GRM0335C1H6R1DA01# |
| | | | 6.2pF | ±0.05pF | GRM0335C1H6R2WA01# |
| | | | | ±0.1pF | GRM0335C1H6R2BA01# |
| | | | | ±0.25pF | GRM0335C1H6R2CA01# |
| | | | | ±0.5pF | GRM0335C1H6R2DA01# |
| | | | 6.3pF | ±0.05pF | GRM0335C1H6R3WA01# |
| | | | | ±0.1pF | GRM0335C1H6R3BA01# |
| | | | | ±0.25pF | GRM0335C1H6R3CA01# |
| | | | | ±0.5pF | GRM0335C1H6R3DA01# |
| | | | 6.4pF | ±0.05pF | GRM0335C1H6R4WA01# |
| | | | | ±0.1pF | GRM0335C1H6R4BA01# |
| | | | | ±0.25pF | GRM0335C1H6R4CA01# |
| | | | | ±0.5pF | GRM0335C1H6R4DA01# |
| | | | 6.5pF | ±0.05pF | GRM0335C1H6R5WA01# |
| | | | | ±0.1pF | GRM0335C1H6R5BA01# |
| | | | | ±0.25pF | GRM0335C1H6R5CA01# |
| | | | | ±0.5pF | GRM0335C1H6R5DA01# |
| | | | 6.6pF | ±0.05pF | GRM0335C1H6R6WA01# |
| | | | | ±0.1pF | GRM0335C1H6R6BA01# |
| | | | | ±0.25pF | GRM0335C1H6R6CA01# |
| | | | | ±0.5pF | GRM0335C1H6R6DA01# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 50Vdc | C0G | 6.7pF | ±0.05pF | GRM0335C1H6R7WA01# | |
| | | | | ±0.1pF | GRM0335C1H6R7BA01# | |
| | | | | ±0.25pF | GRM0335C1H6R7CA01# | |
| | | | | ±0.5pF | GRM0335C1H6R7DA01# | |
| | | | 6.8pF | ±0.05pF | GRM0335C1H6R8WA01# | |
| | | | | ±0.1pF | GRM0335C1H6R8BA01# | |
| | | | | ±0.25pF | GRM0335C1H6R8CA01# | |
| | | | | ±0.5pF | GRM0335C1H6R8DA01# | |
| | | | 6.9pF | ±0.05pF | GRM0335C1H6R9WA01# | |
| | | | | ±0.1pF | GRM0335C1H6R9BA01# | |
| | | | | ±0.25pF | GRM0335C1H6R9CA01# | |
| | | | | ±0.5pF | GRM0335C1H6R9DA01# | |
| | | | 7.0pF | ±0.05pF | GRM0335C1H7R0WA01# | |
| | | | | ±0.1pF | GRM0335C1H7R0BA01# | |
| | | | | ±0.25pF | GRM0335C1H7R0CA01# | |
| | | | | ±0.5pF | GRM0335C1H7R0DA01# | |
| | | | 7.1pF | ±0.05pF | GRM0335C1H7R1WA01# | |
| | | | | ±0.1pF | GRM0335C1H7R1BA01# | |
| | | | | ±0.25pF | GRM0335C1H7R1CA01# | |
| | | | | ±0.5pF | GRM0335C1H7R1DA01# | |
| | | | 7.2pF | ±0.05pF | GRM0335C1H7R2WA01# | |
| | | | | ±0.1pF | GRM0335C1H7R2BA01# | |
| | | | | ±0.25pF | GRM0335C1H7R2CA01# | |
| | | | | ±0.5pF | GRM0335C1H7R2DA01# | |
| | | | 7.3pF | ±0.05pF | GRM0335C1H7R3WA01# | |
| | | | | ±0.1pF | GRM0335C1H7R3BA01# | |
| | | | | ±0.25pF | GRM0335C1H7R3CA01# | |
| | | | | ±0.5pF | GRM0335C1H7R3DA01# | |
| | | | 7.4pF | ±0.05pF | GRM0335C1H7R4WA01# | |
| | | | | ±0.1pF | GRM0335C1H7R4BA01# | |
| | | | | ±0.25pF | GRM0335C1H7R4CA01# | |
| | | | | ±0.5pF | GRM0335C1H7R4DA01# | |
| | | | 7.5pF | ±0.05pF | GRM0335C1H7R5WA01# | |
| | | | | ±0.1pF | GRM0335C1H7R5BA01# | |
| | | | | ±0.25pF | GRM0335C1H7R5CA01# | |
| | | | | ±0.5pF | GRM0335C1H7R5DA01# | |
| | | | 7.6pF | ±0.05pF | GRM0335C1H7R6WA01# | |
| | | | | ±0.1pF | GRM0335C1H7R6BA01# | |
| | | | | ±0.25pF | GRM0335C1H7R6CA01# | |
| | | | | ±0.5pF | GRM0335C1H7R6DA01# | |
| | | | 7.7pF | ±0.05pF | GRM0335C1H7R7WA01# | |
| | | | | ±0.1pF | GRM0335C1H7R7BA01# | |
| | | | | ±0.25pF | GRM0335C1H7R7CA01# | |
| | | | | ±0.5pF | GRM0335C1H7R7DA01# | |
| | | | 7.8pF | ±0.05pF | GRM0335C1H7R8WA01# | |
| | | | | ±0.1pF | GRM0335C1H7R8BA01# | |
| | | | | ±0.25pF | GRM0335C1H7R8CA01# | |
| | | | | ±0.5pF | GRM0335C1H7R8DA01# | |
| | | | 7.9pF | ±0.05pF | GRM0335C1H7R9WA01# | |
| | | | | ±0.1pF | GRM0335C1H7R9BA01# | |
| | | | | ±0.25pF | GRM0335C1H7R9CA01# | |
| | | | | ±0.5pF | GRM0335C1H7R9DA01# | |
| | | | 8.0pF | ±0.05pF | GRM0335C1H8R0WA01# | |
| | | | | ±0.1pF | GRM0335C1H8R0BA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 50Vdc | C0G | 8.0pF | ±0.25pF | GRM0335C1H8R0CA01# | |
| | | | | ±0.5pF | GRM0335C1H8R0DA01# | |
| | | | 8.1pF | ±0.05pF | GRM0335C1H8R1WA01# | |
| | | | | ±0.1pF | GRM0335C1H8R1BA01# | |
| | | | | ±0.25pF | GRM0335C1H8R1CA01# | |
| | | | | ±0.5pF | GRM0335C1H8R1DA01# | |
| | | | 8.2pF | ±0.05pF | GRM0335C1H8R2WA01# | |
| | | | | ±0.1pF | GRM0335C1H8R2BA01# | |
| | | | | ±0.25pF | GRM0335C1H8R2CA01# | |
| | | | | ±0.5pF | GRM0335C1H8R2DA01# | |
| | | | 8.3pF | ±0.05pF | GRM0335C1H8R3WA01# | |
| | | | | ±0.1pF | GRM0335C1H8R3BA01# | |
| | | | | ±0.25pF | GRM0335C1H8R3CA01# | |
| | | | | ±0.5pF | GRM0335C1H8R3DA01# | |
| | | | 8.4pF | ±0.05pF | GRM0335C1H8R4WA01# | |
| | | | | ±0.1pF | GRM0335C1H8R4BA01# | |
| | | | | ±0.25pF | GRM0335C1H8R4CA01# | |
| | | | | ±0.5pF | GRM0335C1H8R4DA01# | |
| | | | 8.5pF | ±0.05pF | GRM0335C1H8R5WA01# | |
| | | | | ±0.1pF | GRM0335C1H8R5BA01# | |
| | | | | ±0.25pF | GRM0335C1H8R5CA01# | |
| | | | | ±0.5pF | GRM0335C1H8R5DA01# | |
| | | | 8.6pF | ±0.05pF | GRM0335C1H8R6WA01# | |
| | | | | ±0.1pF | GRM0335C1H8R6BA01# | |
| | | | | ±0.25pF | GRM0335C1H8R6CA01# | |
| | | | | ±0.5pF | GRM0335C1H8R6DA01# | |
| | | | 8.7pF | ±0.05pF | GRM0335C1H8R7WA01# | |
| | | | | ±0.1pF | GRM0335C1H8R7BA01# | |
| | | | | ±0.25pF | GRM0335C1H8R7CA01# | |
| | | | | ±0.5pF | GRM0335C1H8R7DA01# | |
| | | | 8.8pF | ±0.05pF | GRM0335C1H8R8WA01# | |
| | | | | ±0.1pF | GRM0335C1H8R8BA01# | |
| | | | | ±0.25pF | GRM0335C1H8R8CA01# | |
| | | | | ±0.5pF | GRM0335C1H8R8DA01# | |
| | | | 8.9pF | ±0.05pF | GRM0335C1H8R9WA01# | |
| | | | | ±0.1pF | GRM0335C1H8R9BA01# | |
| | | | | ±0.25pF | GRM0335C1H8R9CA01# | |
| | | | | ±0.5pF | GRM0335C1H8R9DA01# | |
| | | | 9.0pF | ±0.05pF | GRM0335C1H9R0WA01# | |
| | | | | ±0.1pF | GRM0335C1H9R0BA01# | |
| | | | | ±0.25pF | GRM0335C1H9R0CA01# | |
| | | | | ±0.5pF | GRM0335C1H9R0DA01# | |
| | | | 9.1pF | ±0.05pF | GRM0335C1H9R1WA01# | |
| | | | | ±0.1pF | GRM0335C1H9R1BA01# | |
| | | | | ±0.25pF | GRM0335C1H9R1CA01# | |
| | | | | ±0.5pF | GRM0335C1H9R1DA01# | |
| | | | 9.2pF | ±0.05pF | GRM0335C1H9R2WA01# | |
| | | | | ±0.1pF | GRM0335C1H9R2BA01# | |
| | | | | ±0.25pF | GRM0335C1H9R2CA01# | |
| | | | | ±0.5pF | GRM0335C1H9R2DA01# | |
| | | | 9.3pF | ±0.05pF | GRM0335C1H9R3WA01# | |
| | | | | ±0.1pF | GRM0335C1H9R3BA01# | |
| | | | | ±0.25pF | GRM0335C1H9R3CA01# | |
| | | | | ±0.5pF | GRM0335C1H9R3DA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.33mm | 50Vdc | C0G | 9.4pF | ±0.05pF | GRM0335C1H9R4WA01# |
| | | | | ±0.1pF | GRM0335C1H9R4BA01# |
| | | | | ±0.25pF | GRM0335C1H9R4CA01# |
| | | | | ±0.5pF | GRM0335C1H9R4DA01# |
| | | | 9.5pF | ±0.05pF | GRM0335C1H9R5WA01# |
| | | | | ±0.1pF | GRM0335C1H9R5BA01# |
| | | | | ±0.25pF | GRM0335C1H9R5CA01# |
| | | | | ±0.5pF | GRM0335C1H9R5DA01# |
| | | | 9.6pF | ±0.05pF | GRM0335C1H9R6WA01# |
| | | | | ±0.1pF | GRM0335C1H9R6BA01# |
| | | | | ±0.25pF | GRM0335C1H9R6CA01# |
| | | | | ±0.5pF | GRM0335C1H9R6DA01# |
| | | | 9.7pF | ±0.05pF | GRM0335C1H9R7WA01# |
| | | | | ±0.1pF | GRM0335C1H9R7BA01# |
| | | | | ±0.25pF | GRM0335C1H9R7CA01# |
| | | | | ±0.5pF | GRM0335C1H9R7DA01# |
| | | | 9.8pF | ±0.05pF | GRM0335C1H9R8WA01# |
| | | | | ±0.1pF | GRM0335C1H9R8BA01# |
| | | | | ±0.25pF | GRM0335C1H9R8CA01# |
| | | | | ±0.5pF | GRM0335C1H9R8DA01# |
| | | | 9.9pF | ±0.05pF | GRM0335C1H9R9WA01# |
| | | | | ±0.1pF | GRM0335C1H9R9BA01# |
| | | | | ±0.25pF | GRM0335C1H9R9CA01# |
| | | | | ±0.5pF | GRM0335C1H9R9DA01# |
| | | | 10pF | ±2% | GRM0335C1H100GA01# |
| | | | | ±5% | GRM0335C1H100JA01# |
| | | | 12pF | ±2% | GRM0335C1H120GA01# |
| | | | | ±5% | GRM0335C1H120JA01# |
| | | | 15pF | ±2% | GRM0335C1H150GA01# |
| | | | | ±5% | GRM0335C1H150JA01# |
| | | | 18pF | ±2% | GRM0335C1H180GA01# |
| | | | | ±5% | GRM0335C1H180JA01# |
| | | | 22pF | ±2% | GRM0335C1H220GA01# |
| | | | | ±5% | GRM0335C1H220JA01# |
| | | | 27pF | ±2% | GRM0335C1H270GA01# |
| | | | | ±5% | GRM0335C1H270JA01# |
| | | | 33pF | ±2% | GRM0335C1H330GA01# |
| | | | | ±5% | GRM0335C1H330JA01# |
| | | | 39pF | ±2% | GRM0335C1H390GA01# |
| | | | | ±5% | GRM0335C1H390JA01# |
| | | | 47pF | ±2% | GRM0335C1H470GA01# |
| | | | | ±5% | GRM0335C1H470JA01# |
| | | | 56pF | ±2% | GRM0335C1H560GA01# |
| | | | | ±5% | GRM0335C1H560JA01# |
| | | | 68pF | ±2% | GRM0335C1H680GA01# |
| | | | | ±5% | GRM0335C1H680JA01# |
| | | | 82pF | ±2% | GRM0335C1H820GA01# |
| | | | | ±5% | GRM0335C1H820JA01# |
| | | | 100pF | ±2% | GRM0335C1H101GA01# |
| | | | | ±5% | GRM0335C1H101JA01# |
| | | | 120pF | ±2% | GRM0335C1H121GA01# |
| | | | | ±5% | GRM0335C1H121JA01# |
| | | | 150pF | ±2% | GRM0335C1H151GA01# |
| | | | | ±5% | GRM0335C1H151JA01# |
| 0.33mm | 50Vdc | C0G | 180pF | ±2% | GRM0335C1H181GA01# |
| | | | | ±5% | GRM0335C1H181JA01# |
| | | | 220pF | ±2% | GRM0335C1H221GA01# |
| | | | | ±5% | GRM0335C1H221JA01# |
| | | CK | 0.10pF | ±0.05pF | GRM0334C1HR10WA01# |
| | | | 0.20pF | ±0.05pF | GRM0334C1HR20WA01# |
| | | | | ±0.1pF | GRM0334C1HR20BA01# |
| | | | 0.30pF | ±0.05pF | GRM0334C1HR30WA01# |
| | | | | ±0.1pF | GRM0334C1HR30BA01# |
| | | | 0.40pF | ±0.05pF | GRM0334C1HR40WA01# |
| | | | | ±0.1pF | GRM0334C1HR40BA01# |
| | | | 0.50pF | ±0.05pF | GRM0334C1HR50WA01# |
| | | | | ±0.1pF | GRM0334C1HR50BA01# |
| | | | 0.60pF | ±0.05pF | GRM0334C1HR60WA01# |
| | | | | ±0.1pF | GRM0334C1HR60BA01# |
| | | | 0.70pF | ±0.05pF | GRM0334C1HR70WA01# |
| | | | | ±0.1pF | GRM0334C1HR70BA01# |
| | | | 0.80pF | ±0.05pF | GRM0334C1HR80WA01# |
| | | | | ±0.1pF | GRM0334C1HR80BA01# |
| | | | 0.90pF | ±0.05pF | GRM0334C1HR90WA01# |
| | | | | ±0.1pF | GRM0334C1HR90BA01# |
| | | | 1.0pF | ±0.05pF | GRM0334C1H1R0WA01# |
| | | | | ±0.1pF | GRM0334C1H1R0BA01# |
| | | | | ±0.25pF | GRM0334C1H1R0CA01# |
| | | | 1.1pF | ±0.05pF | GRM0334C1H1R1WA01# |
| | | | | ±0.1pF | GRM0334C1H1R1BA01# |
| | | | | ±0.25pF | GRM0334C1H1R1CA01# |
| | | | 1.2pF | ±0.05pF | GRM0334C1H1R2WA01# |
| | | | | ±0.1pF | GRM0334C1H1R2BA01# |
| | | | | ±0.25pF | GRM0334C1H1R2CA01# |
| | | | 1.3pF | ±0.05pF | GRM0334C1H1R3WA01# |
| | | | | ±0.1pF | GRM0334C1H1R3BA01# |
| | | | | ±0.25pF | GRM0334C1H1R3CA01# |
| | | | 1.4pF | ±0.05pF | GRM0334C1H1R4WA01# |
| | | | | ±0.1pF | GRM0334C1H1R4BA01# |
| | | | | ±0.25pF | GRM0334C1H1R4CA01# |
| | | | 1.5pF | ±0.05pF | GRM0334C1H1R5WA01# |
| | | | | ±0.1pF | GRM0334C1H1R5BA01# |
| | | | | ±0.25pF | GRM0334C1H1R5CA01# |
| | | | 1.6pF | ±0.05pF | GRM0334C1H1R6WA01# |
| | | | | ±0.1pF | GRM0334C1H1R6BA01# |
| | | | | ±0.25pF | GRM0334C1H1R6CA01# |
| | | | 1.7pF | ±0.05pF | GRM0334C1H1R7WA01# |
| | | | | ±0.1pF | GRM0334C1H1R7BA01# |
| | | | | ±0.25pF | GRM0334C1H1R7CA01# |
| | | | 1.8pF | ±0.05pF | GRM0334C1H1R8WA01# |
| | | | | ±0.1pF | GRM0334C1H1R8BA01# |
| | | | | ±0.25pF | GRM0334C1H1R8CA01# |
| | | | 1.9pF | ±0.05pF | GRM0334C1H1R9WA01# |
| | | | | ±0.1pF | GRM0334C1H1R9BA01# |
| | | | | ±0.25pF | GRM0334C1H1R9CA01# |
| | | | 2.0pF | ±0.05pF | GRM0334C1H2R0WA01# |
| | | | | ±0.1pF | GRM0334C1H2R0BA01# |
| | | | | ±0.25pF | GRM0334C1H2R0CA01# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 50Vdc | CJ | 2.1pF | ±0.05pF | GRM0333C1H2R1WA01# | |
| | | | | ±0.1pF | GRM0333C1H2R1BA01# | |
| | | | | ±0.25pF | GRM0333C1H2R1CA01# | |
| | | | 2.2pF | ±0.05pF | GRM0333C1H2R2WA01# | |
| | | | | ±0.1pF | GRM0333C1H2R2BA01# | |
| | | | | ±0.25pF | GRM0333C1H2R2CA01# | |
| | | | 2.3pF | ±0.05pF | GRM0333C1H2R3WA01# | |
| | | | | ±0.1pF | GRM0333C1H2R3BA01# | |
| | | | | ±0.25pF | GRM0333C1H2R3CA01# | |
| | | | 2.4pF | ±0.05pF | GRM0333C1H2R4WA01# | |
| | | | | ±0.1pF | GRM0333C1H2R4BA01# | |
| | | | | ±0.25pF | GRM0333C1H2R4CA01# | |
| | | | 2.5pF | ±0.05pF | GRM0333C1H2R5WA01# | |
| | | | | ±0.1pF | GRM0333C1H2R5BA01# | |
| | | | | ±0.25pF | GRM0333C1H2R5CA01# | |
| | | | 2.6pF | ±0.05pF | GRM0333C1H2R6WA01# | |
| | | | | ±0.1pF | GRM0333C1H2R6BA01# | |
| | | | | ±0.25pF | GRM0333C1H2R6CA01# | |
| | | | 2.7pF | ±0.05pF | GRM0333C1H2R7WA01# | |
| | | | | ±0.1pF | GRM0333C1H2R7BA01# | |
| | | | | ±0.25pF | GRM0333C1H2R7CA01# | |
| | | | 2.8pF | ±0.05pF | GRM0333C1H2R8WA01# | |
| | | | | ±0.1pF | GRM0333C1H2R8BA01# | |
| | | | | ±0.25pF | GRM0333C1H2R8CA01# | |
| | | | 2.9pF | ±0.05pF | GRM0333C1H2R9WA01# | |
| | | | | ±0.1pF | GRM0333C1H2R9BA01# | |
| | | | | ±0.25pF | GRM0333C1H2R9CA01# | |
| | | | 3.0pF | ±0.05pF | GRM0333C1H3R0WA01# | |
| | | | | ±0.1pF | GRM0333C1H3R0BA01# | |
| | | | | ±0.25pF | GRM0333C1H3R0CA01# | |
| | | | 3.1pF | ±0.05pF | GRM0333C1H3R1WA01# | |
| | | | | ±0.1pF | GRM0333C1H3R1BA01# | |
| | | | | ±0.25pF | GRM0333C1H3R1CA01# | |
| | | | 3.2pF | ±0.05pF | GRM0333C1H3R2WA01# | |
| | | | | ±0.1pF | GRM0333C1H3R2BA01# | |
| | | | | ±0.25pF | GRM0333C1H3R2CA01# | |
| | | | 3.3pF | ±0.05pF | GRM0333C1H3R3WA01# | |
| | | | | ±0.1pF | GRM0333C1H3R3BA01# | |
| | | | | ±0.25pF | GRM0333C1H3R3CA01# | |
| | | | 3.4pF | ±0.05pF | GRM0333C1H3R4WA01# | |
| | | | | ±0.1pF | GRM0333C1H3R4BA01# | |
| | | | | ±0.25pF | GRM0333C1H3R4CA01# | |
| | | | 3.5pF | ±0.05pF | GRM0333C1H3R5WA01# | |
| | | | | ±0.1pF | GRM0333C1H3R5BA01# | |
| | | | | ±0.25pF | GRM0333C1H3R5CA01# | |
| | | | 3.6pF | ±0.05pF | GRM0333C1H3R6WA01# | |
| | | | | ±0.1pF | GRM0333C1H3R6BA01# | |
| | | | | ±0.25pF | GRM0333C1H3R6CA01# | |
| | | | 3.7pF | ±0.05pF | GRM0333C1H3R7WA01# | |
| | | | | ±0.1pF | GRM0333C1H3R7BA01# | |
| | | | | ±0.25pF | GRM0333C1H3R7CA01# | |
| | | | 3.8pF | ±0.05pF | GRM0333C1H3R8WA01# | |
| | | | | ±0.1pF | GRM0333C1H3R8BA01# | |
| | | | | ±0.25pF | GRM0333C1H3R8CA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 50Vdc | CJ | 3.9pF | ±0.05pF | GRM0333C1H3R9WA01# | |
| | | | | ±0.1pF | GRM0333C1H3R9BA01# | |
| | | | | ±0.25pF | GRM0333C1H3R9CA01# | |
| | | CH | 4.0pF | ±0.05pF | GRM0332C1H4R0WA01# | |
| | | | | ±0.1pF | GRM0332C1H4R0BA01# | |
| | | | | ±0.25pF | GRM0332C1H4R0CA01# | |
| | | | 4.1pF | ±0.05pF | GRM0332C1H4R1WA01# | |
| | | | | ±0.1pF | GRM0332C1H4R1BA01# | |
| | | | | ±0.25pF | GRM0332C1H4R1CA01# | |
| | | | 4.2pF | ±0.05pF | GRM0332C1H4R2WA01# | |
| | | | | ±0.1pF | GRM0332C1H4R2BA01# | |
| | | | | ±0.25pF | GRM0332C1H4R2CA01# | |
| | | | 4.3pF | ±0.05pF | GRM0332C1H4R3WA01# | |
| | | | | ±0.1pF | GRM0332C1H4R3BA01# | |
| | | | | ±0.25pF | GRM0332C1H4R3CA01# | |
| | | | 4.4pF | ±0.05pF | GRM0332C1H4R4WA01# | |
| | | | | ±0.1pF | GRM0332C1H4R4BA01# | |
| | | | | ±0.25pF | GRM0332C1H4R4CA01# | |
| | | | 4.5pF | ±0.05pF | GRM0332C1H4R5WA01# | |
| | | | | ±0.1pF | GRM0332C1H4R5BA01# | |
| | | | | ±0.25pF | GRM0332C1H4R5CA01# | |
| | | | 4.6pF | ±0.05pF | GRM0332C1H4R6WA01# | |
| | | | | ±0.1pF | GRM0332C1H4R6BA01# | |
| | | | | ±0.25pF | GRM0332C1H4R6CA01# | |
| | | | 4.7pF | ±0.05pF | GRM0332C1H4R7WA01# | |
| | | | | ±0.1pF | GRM0332C1H4R7BA01# | |
| | | | | ±0.25pF | GRM0332C1H4R7CA01# | |
| | | | 4.8pF | ±0.05pF | GRM0332C1H4R8WA01# | |
| | | | | ±0.1pF | GRM0332C1H4R8BA01# | |
| | | | | ±0.25pF | GRM0332C1H4R8CA01# | |
| | | | 4.9pF | ±0.05pF | GRM0332C1H4R9WA01# | |
| | | | | ±0.1pF | GRM0332C1H4R9BA01# | |
| | | | | ±0.25pF | GRM0332C1H4R9CA01# | |
| | | | 5.0pF | ±0.05pF | GRM0332C1H5R0WA01# | |
| | | | | ±0.1pF | GRM0332C1H5R0BA01# | |
| | | | | ±0.25pF | GRM0332C1H5R0CA01# | |
| | | | 5.1pF | ±0.05pF | GRM0332C1H5R1WA01# | |
| | | | | ±0.1pF | GRM0332C1H5R1BA01# | |
| | | | | ±0.25pF | GRM0332C1H5R1CA01# | |
| | | | | ±0.5pF | GRM0332C1H5R1DA01# | |
| | | | 5.2pF | ±0.05pF | GRM0332C1H5R2WA01# | |
| | | | | ±0.1pF | GRM0332C1H5R2BA01# | |
| | | | | ±0.25pF | GRM0332C1H5R2CA01# | |
| | | | | ±0.5pF | GRM0332C1H5R2DA01# | |
| | | | 5.3pF | ±0.05pF | GRM0332C1H5R3WA01# | |
| | | | | ±0.1pF | GRM0332C1H5R3BA01# | |
| | | | | ±0.25pF | GRM0332C1H5R3CA01# | |
| | | | | ±0.5pF | GRM0332C1H5R3DA01# | |
| | | | 5.4pF | ±0.05pF | GRM0332C1H5R4WA01# | |
| | | | | ±0.1pF | GRM0332C1H5R4BA01# | |
| | | | | ±0.25pF | GRM0332C1H5R4CA01# | |
| | | | | ±0.5pF | GRM0332C1H5R4DA01# | |
| | | | 5.5pF | ±0.05pF | GRM0332C1H5R5WA01# | |
| | | | | ±0.1pF | GRM0332C1H5R5BA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 50Vdc | CH | 5.5pF | ±0.25pF | GRM0332C1H5R5CA01# | |
| | | | | ±0.5pF | GRM0332C1H5R5DA01# | |
| | | | 5.6pF | ±0.05pF | GRM0332C1H5R6WA01# | |
| | | | | ±0.1pF | GRM0332C1H5R6BA01# | |
| | | | | ±0.25pF | GRM0332C1H5R6CA01# | |
| | | | | ±0.5pF | GRM0332C1H5R6DA01# | |
| | | | 5.7pF | ±0.05pF | GRM0332C1H5R7WA01# | |
| | | | | ±0.1pF | GRM0332C1H5R7BA01# | |
| | | | | ±0.25pF | GRM0332C1H5R7CA01# | |
| | | | | ±0.5pF | GRM0332C1H5R7DA01# | |
| | | | 5.8pF | ±0.05pF | GRM0332C1H5R8WA01# | |
| | | | | ±0.1pF | GRM0332C1H5R8BA01# | |
| | | | | ±0.25pF | GRM0332C1H5R8CA01# | |
| | | | | ±0.5pF | GRM0332C1H5R8DA01# | |
| | | | 5.9pF | ±0.05pF | GRM0332C1H5R9WA01# | |
| | | | | ±0.1pF | GRM0332C1H5R9BA01# | |
| | | | | ±0.25pF | GRM0332C1H5R9CA01# | |
| | | | | ±0.5pF | GRM0332C1H5R9DA01# | |
| | | | 6.0pF | ±0.05pF | GRM0332C1H6R0WA01# | |
| | | | | ±0.1pF | GRM0332C1H6R0BA01# | |
| | | | | ±0.25pF | GRM0332C1H6R0CA01# | |
| | | | | ±0.5pF | GRM0332C1H6R0DA01# | |
| | | | 6.1pF | ±0.05pF | GRM0332C1H6R1WA01# | |
| | | | | ±0.1pF | GRM0332C1H6R1BA01# | |
| | | | | ±0.25pF | GRM0332C1H6R1CA01# | |
| | | | | ±0.5pF | GRM0332C1H6R1DA01# | |
| | | | 6.2pF | ±0.05pF | GRM0332C1H6R2WA01# | |
| | | | | ±0.1pF | GRM0332C1H6R2BA01# | |
| | | | | ±0.25pF | GRM0332C1H6R2CA01# | |
| | | | | ±0.5pF | GRM0332C1H6R2DA01# | |
| | | | 6.3pF | ±0.05pF | GRM0332C1H6R3WA01# | |
| | | | | ±0.1pF | GRM0332C1H6R3BA01# | |
| | | | | ±0.25pF | GRM0332C1H6R3CA01# | |
| | | | | ±0.5pF | GRM0332C1H6R3DA01# | |
| | | | 6.4pF | ±0.05pF | GRM0332C1H6R4WA01# | |
| | | | | ±0.1pF | GRM0332C1H6R4BA01# | |
| | | | | ±0.25pF | GRM0332C1H6R4CA01# | |
| | | | | ±0.5pF | GRM0332C1H6R4DA01# | |
| | | | 6.5pF | ±0.05pF | GRM0332C1H6R5WA01# | |
| | | | | ±0.1pF | GRM0332C1H6R5BA01# | |
| | | | | ±0.25pF | GRM0332C1H6R5CA01# | |
| | | | | ±0.5pF | GRM0332C1H6R5DA01# | |
| | | | 6.6pF | ±0.05pF | GRM0332C1H6R6WA01# | |
| | | | | ±0.1pF | GRM0332C1H6R6BA01# | |
| | | | | ±0.25pF | GRM0332C1H6R6CA01# | |
| | | | | ±0.5pF | GRM0332C1H6R6DA01# | |
| | | | 6.7pF | ±0.05pF | GRM0332C1H6R7WA01# | |
| | | | | ±0.1pF | GRM0332C1H6R7BA01# | |
| | | | | ±0.25pF | GRM0332C1H6R7CA01# | |
| | | | | ±0.5pF | GRM0332C1H6R7DA01# | |
| | | | 6.8pF | ±0.05pF | GRM0332C1H6R8WA01# | |
| | | | | ±0.1pF | GRM0332C1H6R8BA01# | |
| | | | | ±0.25pF | GRM0332C1H6R8CA01# | |
| | | | | ±0.5pF | GRM0332C1H6R8DA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 50Vdc | CH | 6.9pF | ±0.05pF | GRM0332C1H6R9WA01# | |
| | | | | ±0.1pF | GRM0332C1H6R9BA01# | |
| | | | | ±0.25pF | GRM0332C1H6R9CA01# | |
| | | | | ±0.5pF | GRM0332C1H6R9DA01# | |
| | | | 7.0pF | ±0.05pF | GRM0332C1H7R0WA01# | |
| | | | | ±0.1pF | GRM0332C1H7R0BA01# | |
| | | | | ±0.25pF | GRM0332C1H7R0CA01# | |
| | | | | ±0.5pF | GRM0332C1H7R0DA01# | |
| | | | 7.1pF | ±0.05pF | GRM0332C1H7R1WA01# | |
| | | | | ±0.1pF | GRM0332C1H7R1BA01# | |
| | | | | ±0.25pF | GRM0332C1H7R1CA01# | |
| | | | | ±0.5pF | GRM0332C1H7R1DA01# | |
| | | | 7.2pF | ±0.05pF | GRM0332C1H7R2WA01# | |
| | | | | ±0.1pF | GRM0332C1H7R2BA01# | |
| | | | | ±0.25pF | GRM0332C1H7R2CA01# | |
| | | | | ±0.5pF | GRM0332C1H7R2DA01# | |
| | | | 7.3pF | ±0.05pF | GRM0332C1H7R3WA01# | |
| | | | | ±0.1pF | GRM0332C1H7R3BA01# | |
| | | | | ±0.25pF | GRM0332C1H7R3CA01# | |
| | | | | ±0.5pF | GRM0332C1H7R3DA01# | |
| | | | 7.4pF | ±0.05pF | GRM0332C1H7R4WA01# | |
| | | | | ±0.1pF | GRM0332C1H7R4BA01# | |
| | | | | ±0.25pF | GRM0332C1H7R4CA01# | |
| | | | | ±0.5pF | GRM0332C1H7R4DA01# | |
| | | | 7.5pF | ±0.05pF | GRM0332C1H7R5WA01# | |
| | | | | ±0.1pF | GRM0332C1H7R5BA01# | |
| | | | | ±0.25pF | GRM0332C1H7R5CA01# | |
| | | | | ±0.5pF | GRM0332C1H7R5DA01# | |
| | | | 7.6pF | ±0.05pF | GRM0332C1H7R6WA01# | |
| | | | | ±0.1pF | GRM0332C1H7R6BA01# | |
| | | | | ±0.25pF | GRM0332C1H7R6CA01# | |
| | | | | ±0.5pF | GRM0332C1H7R6DA01# | |
| | | | 7.7pF | ±0.05pF | GRM0332C1H7R7WA01# | |
| | | | | ±0.1pF | GRM0332C1H7R7BA01# | |
| | | | | ±0.25pF | GRM0332C1H7R7CA01# | |
| | | | | ±0.5pF | GRM0332C1H7R7DA01# | |
| | | | 7.8pF | ±0.05pF | GRM0332C1H7R8WA01# | |
| | | | | ±0.1pF | GRM0332C1H7R8BA01# | |
| | | | | ±0.25pF | GRM0332C1H7R8CA01# | |
| | | | | ±0.5pF | GRM0332C1H7R8DA01# | |
| | | | 7.9pF | ±0.05pF | GRM0332C1H7R9WA01# | |
| | | | | ±0.1pF | GRM0332C1H7R9BA01# | |
| | | | | ±0.25pF | GRM0332C1H7R9CA01# | |
| | | | | ±0.5pF | GRM0332C1H7R9DA01# | |
| | | | 8.0pF | ±0.05pF | GRM0332C1H8R0WA01# | |
| | | | | ±0.1pF | GRM0332C1H8R0BA01# | |
| | | | | ±0.25pF | GRM0332C1H8R0CA01# | |
| | | | | ±0.5pF | GRM0332C1H8R0DA01# | |
| | | | 8.1pF | ±0.05pF | GRM0332C1H8R1WA01# | |
| | | | | ±0.1pF | GRM0332C1H8R1BA01# | |
| | | | | ±0.25pF | GRM0332C1H8R1CA01# | |
| | | | | ±0.5pF | GRM0332C1H8R1DA01# | |
| | | | 8.2pF | ±0.05pF | GRM0332C1H8R2WA01# | |
| | | | | ±0.1pF | GRM0332C1H8R2BA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 50Vdc | CH | 8.2pF | ±0.25pF | GRM0332C1H8R2CA01# | |
| | | | | ±0.5pF | GRM0332C1H8R2DA01# | |
| | | | 8.3pF | ±0.05pF | GRM0332C1H8R3WA01# | |
| | | | | ±0.1pF | GRM0332C1H8R3BA01# | |
| | | | | ±0.25pF | GRM0332C1H8R3CA01# | |
| | | | | ±0.5pF | GRM0332C1H8R3DA01# | |
| | | | 8.4pF | ±0.05pF | GRM0332C1H8R4WA01# | |
| | | | | ±0.1pF | GRM0332C1H8R4BA01# | |
| | | | | ±0.25pF | GRM0332C1H8R4CA01# | |
| | | | | ±0.5pF | GRM0332C1H8R4DA01# | |
| | | | 8.5pF | ±0.05pF | GRM0332C1H8R5WA01# | |
| | | | | ±0.1pF | GRM0332C1H8R5BA01# | |
| | | | | ±0.25pF | GRM0332C1H8R5CA01# | |
| | | | | ±0.5pF | GRM0332C1H8R5DA01# | |
| | | | 8.6pF | ±0.05pF | GRM0332C1H8R6WA01# | |
| | | | | ±0.1pF | GRM0332C1H8R6BA01# | |
| | | | | ±0.25pF | GRM0332C1H8R6CA01# | |
| | | | | ±0.5pF | GRM0332C1H8R6DA01# | |
| | | | 8.7pF | ±0.05pF | GRM0332C1H8R7WA01# | |
| | | | | ±0.1pF | GRM0332C1H8R7BA01# | |
| | | | | ±0.25pF | GRM0332C1H8R7CA01# | |
| | | | | ±0.5pF | GRM0332C1H8R7DA01# | |
| | | | 8.8pF | ±0.05pF | GRM0332C1H8R8WA01# | |
| | | | | ±0.1pF | GRM0332C1H8R8BA01# | |
| | | | | ±0.25pF | GRM0332C1H8R8CA01# | |
| | | | | ±0.5pF | GRM0332C1H8R8DA01# | |
| | | | 8.9pF | ±0.05pF | GRM0332C1H8R9WA01# | |
| | | | | ±0.1pF | GRM0332C1H8R9BA01# | |
| | | | | ±0.25pF | GRM0332C1H8R9CA01# | |
| | | | | ±0.5pF | GRM0332C1H8R9DA01# | |
| | | | 9.0pF | ±0.05pF | GRM0332C1H9R0WA01# | |
| | | | | ±0.1pF | GRM0332C1H9R0BA01# | |
| | | | | ±0.25pF | GRM0332C1H9R0CA01# | |
| | | | | ±0.5pF | GRM0332C1H9R0DA01# | |
| | | | 9.1pF | ±0.05pF | GRM0332C1H9R1WA01# | |
| | | | | ±0.1pF | GRM0332C1H9R1BA01# | |
| | | | | ±0.25pF | GRM0332C1H9R1CA01# | |
| | | | | ±0.5pF | GRM0332C1H9R1DA01# | |
| | | | 9.2pF | ±0.05pF | GRM0332C1H9R2WA01# | |
| | | | | ±0.1pF | GRM0332C1H9R2BA01# | |
| | | | | ±0.25pF | GRM0332C1H9R2CA01# | |
| | | | | ±0.5pF | GRM0332C1H9R2DA01# | |
| | | | 9.3pF | ±0.05pF | GRM0332C1H9R3WA01# | |
| | | | | ±0.1pF | GRM0332C1H9R3BA01# | |
| | | | | ±0.25pF | GRM0332C1H9R3CA01# | |
| | | | | ±0.5pF | GRM0332C1H9R3DA01# | |
| | | | 9.4pF | ±0.05pF | GRM0332C1H9R4WA01# | |
| | | | | ±0.1pF | GRM0332C1H9R4BA01# | |
| | | | | ±0.25pF | GRM0332C1H9R4CA01# | |
| | | | | ±0.5pF | GRM0332C1H9R4DA01# | |
| | | | 9.5pF | ±0.05pF | GRM0332C1H9R5WA01# | |
| | | | | ±0.1pF | GRM0332C1H9R5BA01# | |
| | | | | ±0.25pF | GRM0332C1H9R5CA01# | |
| | | | | ±0.5pF | GRM0332C1H9R5DA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 50Vdc | CH | 9.6pF | ±0.05pF | GRM0332C1H9R6WA01# | |
| | | | | ±0.1pF | GRM0332C1H9R6BA01# | |
| | | | | ±0.25pF | GRM0332C1H9R6CA01# | |
| | | | | ±0.5pF | GRM0332C1H9R6DA01# | |
| | | | 9.7pF | ±0.05pF | GRM0332C1H9R7WA01# | |
| | | | | ±0.1pF | GRM0332C1H9R7BA01# | |
| | | | | ±0.25pF | GRM0332C1H9R7CA01# | |
| | | | | ±0.5pF | GRM0332C1H9R7DA01# | |
| | | | 9.8pF | ±0.05pF | GRM0332C1H9R8WA01# | |
| | | | | ±0.1pF | GRM0332C1H9R8BA01# | |
| | | | | ±0.25pF | GRM0332C1H9R8CA01# | |
| | | | | ±0.5pF | GRM0332C1H9R8DA01# | |
| | | | 9.9pF | ±0.05pF | GRM0332C1H9R9WA01# | |
| | | | | ±0.1pF | GRM0332C1H9R9BA01# | |
| | | | | ±0.25pF | GRM0332C1H9R9CA01# | |
| | | | | ±0.5pF | GRM0332C1H9R9DA01# | |
| | | | 10pF | ±2% | GRM0332C1H100GA01# | |
| | | | | ±5% | GRM0332C1H100JA01# | |
| | | | 12pF | ±2% | GRM0332C1H120GA01# | |
| | | | | ±5% | GRM0332C1H120JA01# | |
| | | | 15pF | ±2% | GRM0332C1H150GA01# | |
| | | | | ±5% | GRM0332C1H150JA01# | |
| | | | 18pF | ±2% | GRM0332C1H180GA01# | |
| | | | | ±5% | GRM0332C1H180JA01# | |
| | | | 22pF | ±2% | GRM0332C1H220GA01# | |
| | | | | ±5% | GRM0332C1H220JA01# | |
| | | | 27pF | ±2% | GRM0332C1H270GA01# | |
| | | | | ±5% | GRM0332C1H270JA01# | |
| | | | 33pF | ±2% | GRM0332C1H330GA01# | |
| | | | | ±5% | GRM0332C1H330JA01# | |
| | | | 39pF | ±2% | GRM0332C1H390GA01# | |
| | | | | ±5% | GRM0332C1H390JA01# | |
| | | | 47pF | ±2% | GRM0332C1H470GA01# | |
| | | | | ±5% | GRM0332C1H470JA01# | |
| | | | 56pF | ±2% | GRM0332C1H560GA01# | |
| | | | | ±5% | GRM0332C1H560JA01# | |
| | | | 68pF | ±2% | GRM0332C1H680GA01# | |
| | | | | ±5% | GRM0332C1H680JA01# | |
| | | | 82pF | ±2% | GRM0332C1H820GA01# | |
| | | | | ±5% | GRM0332C1H820JA01# | |
| | | | 100pF | ±2% | GRM0332C1H101GA01# | |
| | | | | ±5% | GRM0332C1H101JA01# | |
| | | | 120pF | ±2% | GRM0332C1H121GA01# | |
| | | | | ±5% | GRM0332C1H121JA01# | |
| | | | 150pF | ±2% | GRM0332C1H151GA01# | |
| | | | | ±5% | GRM0332C1H151JA01# | |
| | | | 180pF | ±2% | GRM0332C1H181GA01# | |
| | | | | ±5% | GRM0332C1H181JA01# | |
| | | | 220pF | ±2% | GRM0332C1H221GA01# | |
| | | | | ±5% | GRM0332C1H221JA01# | |
| | 25Vdc | C0G | 270pF | ±2% | GRM0335C1E271GA01# | |
| | | | | ±5% | GRM0335C1E271JA01# | |
| | | | 330pF | ±2% | GRM0335C1E331GA01# | |
| | | | | ±5% | GRM0335C1E331JA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 0.6×0.3mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.33mm | 25Vdc | C0G | 390pF | ±2% | **GRM0335C1E391GA01#** | |
| | | | | ±5% | **GRM0335C1E391JA01#** | |
| | | | 470pF | ±2% | **GRM0335C1E471GA01#** | |
| | | | | ±5% | **GRM0335C1E471JA01#** | |
| | | | 560pF | ±2% | **GRM0335C1E561GA01#** | |
| | | | | ±5% | **GRM0335C1E561JA01#** | |
| | | | 680pF | ±2% | **GRM0335C1E681GA01#** | |
| | | | | ±5% | **GRM0335C1E681JA01#** | |
| | | | 820pF | ±2% | **GRM0335C1E821GA01#** | |
| | | | | ±5% | **GRM0335C1E821JA01#** | |
| | | | 910pF | ±2% | **GRM0335C1E911GA01#** | |
| | | | | ±5% | **GRM0335C1E911JA01#** | |
| | | | 1000pF | ±2% | **GRM0335C1E102GA01#** | |
| | | | | ±5% | **GRM0335C1E102JA01#** | |
| | | CH | 270pF | ±2% | **GRM0332C1E271GA01#** | |
| | | | | ±5% | **GRM0332C1E271JA01#** | |
| | | | 330pF | ±2% | **GRM0332C1E331GA01#** | |
| | | | | ±5% | **GRM0332C1E331JA01#** | |
| | | | 390pF | ±2% | **GRM0332C1E391GA01#** | |
| | | | | ±5% | **GRM0332C1E391JA01#** | |
| | | | 470pF | ±2% | **GRM0332C1E471GA01#** | |
| | | | | ±5% | **GRM0332C1E471JA01#** | |
| | | | 560pF | ±2% | **GRM0332C1E561GA01#** | |
| | | | | ±5% | **GRM0332C1E561JA01#** | |
| | | | 680pF | ±2% | **GRM0332C1E681GA01#** | |
| | | | | ±5% | **GRM0332C1E681JA01#** | |
| | | | 820pF | ±2% | **GRM0332C1E821GA01#** | |
| | | | | ±5% | **GRM0332C1E821JA01#** | |
| | | | 1000pF | ±2% | **GRM0332C1E102GA01#** | |
| | | | | ±5% | **GRM0332C1E102JA01#** | |

**1.0×0.5mm**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.55mm | 100Vdc | C0G | 0.10pF | ±0.05pF | **GRM1555C2AR10WA01#** | |
| | | | 0.20pF | ±0.05pF | **GRM1555C2AR20WA01#** | |
| | | | | ±0.1pF | **GRM1555C2AR20BA01#** | |
| | | | 0.30pF | ±0.05pF | **GRM1555C2AR30WA01#** | |
| | | | | ±0.1pF | **GRM1555C2AR30BA01#** | |
| | | | 0.40pF | ±0.05pF | **GRM1555C2AR40WA01#** | |
| | | | | ±0.1pF | **GRM1555C2AR40BA01#** | |
| | | | 0.50pF | ±0.05pF | **GRM1555C2AR50WA01#** | |
| | | | | ±0.1pF | **GRM1555C2AR50BA01#** | |
| | | | 0.60pF | ±0.05pF | **GRM1555C2AR60WA01#** | |
| | | | | ±0.1pF | **GRM1555C2AR60BA01#** | |
| | | | 0.70pF | ±0.05pF | **GRM1555C2AR70WA01#** | |
| | | | | ±0.1pF | **GRM1555C2AR70BA01#** | |
| | | | 0.80pF | ±0.05pF | **GRM1555C2AR80WA01#** | |
| | | | | ±0.1pF | **GRM1555C2AR80BA01#** | |
| | | | 0.90pF | ±0.05pF | **GRM1555C2AR90WA01#** | |
| | | | | ±0.1pF | **GRM1555C2AR90BA01#** | |
| | | | 1.0pF | ±0.05pF | **GRM1555C2A1R0WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A1R0BA01#** | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.55mm | 100Vdc | C0G | 1.0pF | ±0.25pF | **GRM1555C2A1R0CA01#** | |
| | | | 1.1pF | ±0.05pF | **GRM1555C2A1R1WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A1R1BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A1R1CA01#** | |
| | | | 1.2pF | ±0.05pF | **GRM1555C2A1R2WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A1R2BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A1R2CA01#** | |
| | | | 1.3pF | ±0.05pF | **GRM1555C2A1R3WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A1R3BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A1R3CA01#** | |
| | | | 1.4pF | ±0.05pF | **GRM1555C2A1R4WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A1R4BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A1R4CA01#** | |
| | | | 1.5pF | ±0.05pF | **GRM1555C2A1R5WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A1R5BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A1R5CA01#** | |
| | | | 1.6pF | ±0.05pF | **GRM1555C2A1R6WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A1R6BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A1R6CA01#** | |
| | | | 1.7pF | ±0.05pF | **GRM1555C2A1R7WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A1R7BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A1R7CA01#** | |
| | | | 1.8pF | ±0.05pF | **GRM1555C2A1R8WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A1R8BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A1R8CA01#** | |
| | | | 1.9pF | ±0.05pF | **GRM1555C2A1R9WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A1R9BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A1R9CA01#** | |
| | | | 2.0pF | ±0.05pF | **GRM1555C2A2R0WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A2R0BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A2R0CA01#** | |
| | | | 2.1pF | ±0.05pF | **GRM1555C2A2R1WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A2R1BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A2R1CA01#** | |
| | | | 2.2pF | ±0.05pF | **GRM1555C2A2R2WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A2R2BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A2R2CA01#** | |
| | | | 2.3pF | ±0.05pF | **GRM1555C2A2R3WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A2R3BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A2R3CA01#** | |
| | | | 2.4pF | ±0.05pF | **GRM1555C2A2R4WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A2R4BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A2R4CA01#** | |
| | | | 2.5pF | ±0.05pF | **GRM1555C2A2R5WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A2R5BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A2R5CA01#** | |
| | | | 2.6pF | ±0.05pF | **GRM1555C2A2R6WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A2R6BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A2R6CA01#** | |
| | | | 2.7pF | ±0.05pF | **GRM1555C2A2R7WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A2R7BA01#** | |
| | | | | ±0.25pF | **GRM1555C2A2R7CA01#** | |
| | | | 2.8pF | ±0.05pF | **GRM1555C2A2R8WA01#** | |
| | | | | ±0.1pF | **GRM1555C2A2R8BA01#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.55mm | 100Vdc | C0G | 2.8pF | ±0.25pF | **GRM1555C2A2R8CA01#** |
| | | | 2.9pF | ±0.05pF | **GRM1555C2A2R9WA01#** |
| | | | | ±0.1pF | **GRM1555C2A2R9BA01#** |
| | | | | ±0.25pF | **GRM1555C2A2R9CA01#** |
| | | | 3.0pF | ±0.05pF | **GRM1555C2A3R0WA01#** |
| | | | | ±0.1pF | **GRM1555C2A3R0BA01#** |
| | | | | ±0.25pF | **GRM1555C2A3R0CA01#** |
| | | | 3.1pF | ±0.05pF | **GRM1555C2A3R1WA01#** |
| | | | | ±0.1pF | **GRM1555C2A3R1BA01#** |
| | | | | ±0.25pF | **GRM1555C2A3R1CA01#** |
| | | | 3.2pF | ±0.05pF | **GRM1555C2A3R2WA01#** |
| | | | | ±0.1pF | **GRM1555C2A3R2BA01#** |
| | | | | ±0.25pF | **GRM1555C2A3R2CA01#** |
| | | | 3.3pF | ±0.05pF | **GRM1555C2A3R3WA01#** |
| | | | | ±0.1pF | **GRM1555C2A3R3BA01#** |
| | | | | ±0.25pF | **GRM1555C2A3R3CA01#** |
| | | | 3.4pF | ±0.05pF | **GRM1555C2A3R4WA01#** |
| | | | | ±0.1pF | **GRM1555C2A3R4BA01#** |
| | | | | ±0.25pF | **GRM1555C2A3R4CA01#** |
| | | | 3.5pF | ±0.05pF | **GRM1555C2A3R5WA01#** |
| | | | | ±0.1pF | **GRM1555C2A3R5BA01#** |
| | | | | ±0.25pF | **GRM1555C2A3R5CA01#** |
| | | | 3.6pF | ±0.05pF | **GRM1555C2A3R6WA01#** |
| | | | | ±0.1pF | **GRM1555C2A3R6BA01#** |
| | | | | ±0.25pF | **GRM1555C2A3R6CA01#** |
| | | | 3.7pF | ±0.05pF | **GRM1555C2A3R7WA01#** |
| | | | | ±0.1pF | **GRM1555C2A3R7BA01#** |
| | | | | ±0.25pF | **GRM1555C2A3R7CA01#** |
| | | | 3.8pF | ±0.05pF | **GRM1555C2A3R8WA01#** |
| | | | | ±0.1pF | **GRM1555C2A3R8BA01#** |
| | | | | ±0.25pF | **GRM1555C2A3R8CA01#** |
| | | | 3.9pF | ±0.05pF | **GRM1555C2A3R9WA01#** |
| | | | | ±0.1pF | **GRM1555C2A3R9BA01#** |
| | | | | ±0.25pF | **GRM1555C2A3R9CA01#** |
| | | | 4.0pF | ±0.05pF | **GRM1555C2A4R0WA01#** |
| | | | | ±0.1pF | **GRM1555C2A4R0BA01#** |
| | | | | ±0.25pF | **GRM1555C2A4R0CA01#** |
| | | | 4.1pF | ±0.05pF | **GRM1555C2A4R1WA01#** |
| | | | | ±0.1pF | **GRM1555C2A4R1BA01#** |
| | | | | ±0.25pF | **GRM1555C2A4R1CA01#** |
| | | | 4.2pF | ±0.05pF | **GRM1555C2A4R2WA01#** |
| | | | | ±0.1pF | **GRM1555C2A4R2BA01#** |
| | | | | ±0.25pF | **GRM1555C2A4R2CA01#** |
| | | | 4.3pF | ±0.05pF | **GRM1555C2A4R3WA01#** |
| | | | | ±0.1pF | **GRM1555C2A4R3BA01#** |
| | | | | ±0.25pF | **GRM1555C2A4R3CA01#** |
| | | | 4.4pF | ±0.05pF | **GRM1555C2A4R4WA01#** |
| | | | | ±0.1pF | **GRM1555C2A4R4BA01#** |
| | | | | ±0.25pF | **GRM1555C2A4R4CA01#** |
| | | | 4.5pF | ±0.05pF | **GRM1555C2A4R5WA01#** |
| | | | | ±0.1pF | **GRM1555C2A4R5BA01#** |
| | | | | ±0.25pF | **GRM1555C2A4R5CA01#** |
| | | | 4.6pF | ±0.05pF | **GRM1555C2A4R6WA01#** |
| | | | | ±0.1pF | **GRM1555C2A4R6BA01#** |
| 0.55mm | 100Vdc | C0G | 4.6pF | ±0.25pF | **GRM1555C2A4R6CA01#** |
| | | | 4.7pF | ±0.05pF | **GRM1555C2A4R7WA01#** |
| | | | | ±0.1pF | **GRM1555C2A4R7BA01#** |
| | | | | ±0.25pF | **GRM1555C2A4R7CA01#** |
| | | | 4.8pF | ±0.05pF | **GRM1555C2A4R8WA01#** |
| | | | | ±0.1pF | **GRM1555C2A4R8BA01#** |
| | | | | ±0.25pF | **GRM1555C2A4R8CA01#** |
| | | | 4.9pF | ±0.05pF | **GRM1555C2A4R9WA01#** |
| | | | | ±0.1pF | **GRM1555C2A4R9BA01#** |
| | | | | ±0.25pF | **GRM1555C2A4R9CA01#** |
| | | | 5.0pF | ±0.05pF | **GRM1555C2A5R0WA01#** |
| | | | | ±0.1pF | **GRM1555C2A5R0BA01#** |
| | | | | ±0.25pF | **GRM1555C2A5R0CA01#** |
| | | | 5.1pF | ±0.05pF | **GRM1555C2A5R1WA01#** |
| | | | | ±0.1pF | **GRM1555C2A5R1BA01#** |
| | | | | ±0.25pF | **GRM1555C2A5R1CA01#** |
| | | | | ±0.5pF | **GRM1555C2A5R1DA01#** |
| | | | 5.2pF | ±0.05pF | **GRM1555C2A5R2WA01#** |
| | | | | ±0.1pF | **GRM1555C2A5R2BA01#** |
| | | | | ±0.25pF | **GRM1555C2A5R2CA01#** |
| | | | | ±0.5pF | **GRM1555C2A5R2DA01#** |
| | | | 5.3pF | ±0.05pF | **GRM1555C2A5R3WA01#** |
| | | | | ±0.1pF | **GRM1555C2A5R3BA01#** |
| | | | | ±0.25pF | **GRM1555C2A5R3CA01#** |
| | | | | ±0.5pF | **GRM1555C2A5R3DA01#** |
| | | | 5.4pF | ±0.05pF | **GRM1555C2A5R4WA01#** |
| | | | | ±0.1pF | **GRM1555C2A5R4BA01#** |
| | | | | ±0.25pF | **GRM1555C2A5R4CA01#** |
| | | | | ±0.5pF | **GRM1555C2A5R4DA01#** |
| | | | 5.5pF | ±0.05pF | **GRM1555C2A5R5WA01#** |
| | | | | ±0.1pF | **GRM1555C2A5R5BA01#** |
| | | | | ±0.25pF | **GRM1555C2A5R5CA01#** |
| | | | | ±0.5pF | **GRM1555C2A5R5DA01#** |
| | | | 5.6pF | ±0.05pF | **GRM1555C2A5R6WA01#** |
| | | | | ±0.1pF | **GRM1555C2A5R6BA01#** |
| | | | | ±0.25pF | **GRM1555C2A5R6CA01#** |
| | | | | ±0.5pF | **GRM1555C2A5R6DA01#** |
| | | | 5.7pF | ±0.05pF | **GRM1555C2A5R7WA01#** |
| | | | | ±0.1pF | **GRM1555C2A5R7BA01#** |
| | | | | ±0.25pF | **GRM1555C2A5R7CA01#** |
| | | | | ±0.5pF | **GRM1555C2A5R7DA01#** |
| | | | 5.8pF | ±0.05pF | **GRM1555C2A5R8WA01#** |
| | | | | ±0.1pF | **GRM1555C2A5R8BA01#** |
| | | | | ±0.25pF | **GRM1555C2A5R8CA01#** |
| | | | | ±0.5pF | **GRM1555C2A5R8DA01#** |
| | | | 5.9pF | ±0.05pF | **GRM1555C2A5R9WA01#** |
| | | | | ±0.1pF | **GRM1555C2A5R9BA01#** |
| | | | | ±0.25pF | **GRM1555C2A5R9CA01#** |
| | | | | ±0.5pF | **GRM1555C2A5R9DA01#** |
| | | | 6.0pF | ±0.05pF | **GRM1555C2A6R0WA01#** |
| | | | | ±0.1pF | **GRM1555C2A6R0BA01#** |
| | | | | ±0.25pF | **GRM1555C2A6R0CA01#** |
| | | | | ±0.5pF | **GRM1555C2A6R0DA01#** |
| | | | 6.1pF | ±0.05pF | **GRM1555C2A6R1WA01#** |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.55mm | 100Vdc | C0G | 6.1pF | ±0.1pF | GRM1555C2A6R1BA01# | |
| | | | | ±0.25pF | GRM1555C2A6R1CA01# | |
| | | | | ±0.5pF | GRM1555C2A6R1DA01# | |
| | | | 6.2pF | ±0.05pF | GRM1555C2A6R2WA01# | |
| | | | | ±0.1pF | GRM1555C2A6R2BA01# | |
| | | | | ±0.25pF | GRM1555C2A6R2CA01# | |
| | | | | ±0.5pF | GRM1555C2A6R2DA01# | |
| | | | 6.3pF | ±0.05pF | GRM1555C2A6R3WA01# | |
| | | | | ±0.1pF | GRM1555C2A6R3BA01# | |
| | | | | ±0.25pF | GRM1555C2A6R3CA01# | |
| | | | | ±0.5pF | GRM1555C2A6R3DA01# | |
| | | | 6.4pF | ±0.05pF | GRM1555C2A6R4WA01# | |
| | | | | ±0.1pF | GRM1555C2A6R4BA01# | |
| | | | | ±0.25pF | GRM1555C2A6R4CA01# | |
| | | | | ±0.5pF | GRM1555C2A6R4DA01# | |
| | | | 6.5pF | ±0.05pF | GRM1555C2A6R5WA01# | |
| | | | | ±0.1pF | GRM1555C2A6R5BA01# | |
| | | | | ±0.25pF | GRM1555C2A6R5CA01# | |
| | | | | ±0.5pF | GRM1555C2A6R5DA01# | |
| | | | 6.6pF | ±0.05pF | GRM1555C2A6R6WA01# | |
| | | | | ±0.1pF | GRM1555C2A6R6BA01# | |
| | | | | ±0.25pF | GRM1555C2A6R6CA01# | |
| | | | | ±0.5pF | GRM1555C2A6R6DA01# | |
| | | | 6.7pF | ±0.05pF | GRM1555C2A6R7WA01# | |
| | | | | ±0.1pF | GRM1555C2A6R7BA01# | |
| | | | | ±0.25pF | GRM1555C2A6R7CA01# | |
| | | | | ±0.5pF | GRM1555C2A6R7DA01# | |
| | | | 6.8pF | ±0.05pF | GRM1555C2A6R8WA01# | |
| | | | | ±0.1pF | GRM1555C2A6R8BA01# | |
| | | | | ±0.25pF | GRM1555C2A6R8CA01# | |
| | | | | ±0.5pF | GRM1555C2A6R8DA01# | |
| | | | 6.9pF | ±0.05pF | GRM1555C2A6R9WA01# | |
| | | | | ±0.1pF | GRM1555C2A6R9BA01# | |
| | | | | ±0.25pF | GRM1555C2A6R9CA01# | |
| | | | | ±0.5pF | GRM1555C2A6R9DA01# | |
| | | | 7.0pF | ±0.05pF | GRM1555C2A7R0WA01# | |
| | | | | ±0.1pF | GRM1555C2A7R0BA01# | |
| | | | | ±0.25pF | GRM1555C2A7R0CA01# | |
| | | | | ±0.5pF | GRM1555C2A7R0DA01# | |
| | | | 7.1pF | ±0.05pF | GRM1555C2A7R1WA01# | |
| | | | | ±0.1pF | GRM1555C2A7R1BA01# | |
| | | | | ±0.25pF | GRM1555C2A7R1CA01# | |
| | | | | ±0.5pF | GRM1555C2A7R1DA01# | |
| | | | 7.2pF | ±0.05pF | GRM1555C2A7R2WA01# | |
| | | | | ±0.1pF | GRM1555C2A7R2BA01# | |
| | | | | ±0.25pF | GRM1555C2A7R2CA01# | |
| | | | | ±0.5pF | GRM1555C2A7R2DA01# | |
| | | | 7.3pF | ±0.05pF | GRM1555C2A7R3WA01# | |
| | | | | ±0.1pF | GRM1555C2A7R3BA01# | |
| | | | | ±0.25pF | GRM1555C2A7R3CA01# | |
| | | | | ±0.5pF | GRM1555C2A7R3DA01# | |
| | | | 7.4pF | ±0.05pF | GRM1555C2A7R4WA01# | |
| | | | | ±0.1pF | GRM1555C2A7R4BA01# | |
| | | | | ±0.25pF | GRM1555C2A7R4CA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.55mm | 100Vdc | C0G | 7.4pF | ±0.5pF | GRM1555C2A7R4DA01# | |
| | | | 7.5pF | ±0.05pF | GRM1555C2A7R5WA01# | |
| | | | | ±0.1pF | GRM1555C2A7R5BA01# | |
| | | | | ±0.25pF | GRM1555C2A7R5CA01# | |
| | | | | ±0.5pF | GRM1555C2A7R5DA01# | |
| | | | 7.6pF | ±0.05pF | GRM1555C2A7R6WA01# | |
| | | | | ±0.1pF | GRM1555C2A7R6BA01# | |
| | | | | ±0.25pF | GRM1555C2A7R6CA01# | |
| | | | | ±0.5pF | GRM1555C2A7R6DA01# | |
| | | | 7.7pF | ±0.05pF | GRM1555C2A7R7WA01# | |
| | | | | ±0.1pF | GRM1555C2A7R7BA01# | |
| | | | | ±0.25pF | GRM1555C2A7R7CA01# | |
| | | | | ±0.5pF | GRM1555C2A7R7DA01# | |
| | | | 7.8pF | ±0.05pF | GRM1555C2A7R8WA01# | |
| | | | | ±0.1pF | GRM1555C2A7R8BA01# | |
| | | | | ±0.25pF | GRM1555C2A7R8CA01# | |
| | | | | ±0.5pF | GRM1555C2A7R8DA01# | |
| | | | 7.9pF | ±0.05pF | GRM1555C2A7R9WA01# | |
| | | | | ±0.1pF | GRM1555C2A7R9BA01# | |
| | | | | ±0.25pF | GRM1555C2A7R9CA01# | |
| | | | | ±0.5pF | GRM1555C2A7R9DA01# | |
| | | | 8.0pF | ±0.05pF | GRM1555C2A8R0WA01# | |
| | | | | ±0.1pF | GRM1555C2A8R0BA01# | |
| | | | | ±0.25pF | GRM1555C2A8R0CA01# | |
| | | | | ±0.5pF | GRM1555C2A8R0DA01# | |
| | | | 8.1pF | ±0.05pF | GRM1555C2A8R1WA01# | |
| | | | | ±0.1pF | GRM1555C2A8R1BA01# | |
| | | | | ±0.25pF | GRM1555C2A8R1CA01# | |
| | | | | ±0.5pF | GRM1555C2A8R1DA01# | |
| | | | 8.2pF | ±0.05pF | GRM1555C2A8R2WA01# | |
| | | | | ±0.1pF | GRM1555C2A8R2BA01# | |
| | | | | ±0.25pF | GRM1555C2A8R2CA01# | |
| | | | | ±0.5pF | GRM1555C2A8R2DA01# | |
| | | | 8.3pF | ±0.05pF | GRM1555C2A8R3WA01# | |
| | | | | ±0.1pF | GRM1555C2A8R3BA01# | |
| | | | | ±0.25pF | GRM1555C2A8R3CA01# | |
| | | | | ±0.5pF | GRM1555C2A8R3DA01# | |
| | | | 8.4pF | ±0.05pF | GRM1555C2A8R4WA01# | |
| | | | | ±0.1pF | GRM1555C2A8R4BA01# | |
| | | | | ±0.25pF | GRM1555C2A8R4CA01# | |
| | | | | ±0.5pF | GRM1555C2A8R4DA01# | |
| | | | 8.5pF | ±0.05pF | GRM1555C2A8R5WA01# | |
| | | | | ±0.1pF | GRM1555C2A8R5BA01# | |
| | | | | ±0.25pF | GRM1555C2A8R5CA01# | |
| | | | | ±0.5pF | GRM1555C2A8R5DA01# | |
| | | | 8.6pF | ±0.05pF | GRM1555C2A8R6WA01# | |
| | | | | ±0.1pF | GRM1555C2A8R6BA01# | |
| | | | | ±0.25pF | GRM1555C2A8R6CA01# | |
| | | | | ±0.5pF | GRM1555C2A8R6DA01# | |
| | | | 8.7pF | ±0.05pF | GRM1555C2A8R7WA01# | |
| | | | | ±0.1pF | GRM1555C2A8R7BA01# | |
| | | | | ±0.25pF | GRM1555C2A8R7CA01# | |
| | | | | ±0.5pF | GRM1555C2A8R7DA01# | |
| | | | 8.8pF | ±0.05pF | GRM1555C2A8R8WA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.55mm | 100Vdc | C0G | 8.8pF | ±0.1pF | **GRM1555C2A8R8BA01#** |
| | | | | ±0.25pF | **GRM1555C2A8R8CA01#** |
| | | | | ±0.5pF | **GRM1555C2A8R8DA01#** |
| | | | 8.9pF | ±0.05pF | **GRM1555C2A8R9WA01#** |
| | | | | ±0.1pF | **GRM1555C2A8R9BA01#** |
| | | | | ±0.25pF | **GRM1555C2A8R9CA01#** |
| | | | | ±0.5pF | **GRM1555C2A8R9DA01#** |
| | | | 9.0pF | ±0.05pF | **GRM1555C2A9R0WA01#** |
| | | | | ±0.1pF | **GRM1555C2A9R0BA01#** |
| | | | | ±0.25pF | **GRM1555C2A9R0CA01#** |
| | | | | ±0.5pF | **GRM1555C2A9R0DA01#** |
| | | | 9.1pF | ±0.05pF | **GRM1555C2A9R1WA01#** |
| | | | | ±0.1pF | **GRM1555C2A9R1BA01#** |
| | | | | ±0.25pF | **GRM1555C2A9R1CA01#** |
| | | | | ±0.5pF | **GRM1555C2A9R1DA01#** |
| | | | 9.2pF | ±0.05pF | **GRM1555C2A9R2WA01#** |
| | | | | ±0.1pF | **GRM1555C2A9R2BA01#** |
| | | | | ±0.25pF | **GRM1555C2A9R2CA01#** |
| | | | | ±0.5pF | **GRM1555C2A9R2DA01#** |
| | | | 9.3pF | ±0.05pF | **GRM1555C2A9R3WA01#** |
| | | | | ±0.1pF | **GRM1555C2A9R3BA01#** |
| | | | | ±0.25pF | **GRM1555C2A9R3CA01#** |
| | | | | ±0.5pF | **GRM1555C2A9R3DA01#** |
| | | | 9.4pF | ±0.05pF | **GRM1555C2A9R4WA01#** |
| | | | | ±0.1pF | **GRM1555C2A9R4BA01#** |
| | | | | ±0.25pF | **GRM1555C2A9R4CA01#** |
| | | | | ±0.5pF | **GRM1555C2A9R4DA01#** |
| | | | 9.5pF | ±0.05pF | **GRM1555C2A9R5WA01#** |
| | | | | ±0.1pF | **GRM1555C2A9R5BA01#** |
| | | | | ±0.25pF | **GRM1555C2A9R5CA01#** |
| | | | | ±0.5pF | **GRM1555C2A9R5DA01#** |
| | | | 9.6pF | ±0.05pF | **GRM1555C2A9R6WA01#** |
| | | | | ±0.1pF | **GRM1555C2A9R6BA01#** |
| | | | | ±0.25pF | **GRM1555C2A9R6CA01#** |
| | | | | ±0.5pF | **GRM1555C2A9R6DA01#** |
| | | | 9.7pF | ±0.05pF | **GRM1555C2A9R7WA01#** |
| | | | | ±0.1pF | **GRM1555C2A9R7BA01#** |
| | | | | ±0.25pF | **GRM1555C2A9R7CA01#** |
| | | | | ±0.5pF | **GRM1555C2A9R7DA01#** |
| | | | 9.8pF | ±0.05pF | **GRM1555C2A9R8WA01#** |
| | | | | ±0.1pF | **GRM1555C2A9R8BA01#** |
| | | | | ±0.25pF | **GRM1555C2A9R8CA01#** |
| | | | | ±0.5pF | **GRM1555C2A9R8DA01#** |
| | | | 9.9pF | ±0.05pF | **GRM1555C2A9R9WA01#** |
| | | | | ±0.1pF | **GRM1555C2A9R9BA01#** |
| | | | | ±0.25pF | **GRM1555C2A9R9CA01#** |
| | | | | ±0.5pF | **GRM1555C2A9R9DA01#** |
| | | | 10pF | ±2% | **GRM1555C2A100GA01#** |
| | | | | ±5% | **GRM1555C2A100JA01#** |
| | | | 12pF | ±2% | **GRM1555C2A120GA01#** |
| | | | | ±5% | **GRM1555C2A120JA01#** |
| | | | 15pF | ±2% | **GRM1555C2A150GA01#** |
| | | | | ±5% | **GRM1555C2A150JA01#** |
| | | | 18pF | ±2% | **GRM1555C2A180GA01#** |
| 0.55mm | 100Vdc | C0G | 18pF | ±5% | **GRM1555C2A180JA01#** |
| | | | 22pF | ±2% | **GRM1555C2A220GA01#** |
| | | | | ±5% | **GRM1555C2A220JA01#** |
| | | | 27pF | ±2% | **GRM1555C2A270GA01#** |
| | | | | ±5% | **GRM1555C2A270JA01#** |
| | | | 33pF | ±2% | **GRM1555C2A330GA01#** |
| | | | | ±5% | **GRM1555C2A330JA01#** |
| | | | 39pF | ±2% | **GRM1555C2A390GA01#** |
| | | | | ±5% | **GRM1555C2A390JA01#** |
| | | | 47pF | ±2% | **GRM1555C2A470GA01#** |
| | | | | ±5% | **GRM1555C2A470JA01#** |
| | | | 56pF | ±2% | **GRM1555C2A560GA01#** |
| | | | | ±5% | **GRM1555C2A560JA01#** |
| | | | 68pF | ±2% | **GRM1555C2A680GA01#** |
| | | | | ±5% | **GRM1555C2A680JA01#** |
| | | | 82pF | ±2% | **GRM1555C2A820GA01#** |
| | | | | ±5% | **GRM1555C2A820JA01#** |
| | | | 100pF | ±2% | **GRM1555C2A101GA01#** |
| | | | | ±5% | **GRM1555C2A101JA01#** |
| | | CK | 0.10pF | ±0.05pF | **GRM1554C2AR10WA01#** |
| | | | 0.20pF | ±0.05pF | **GRM1554C2AR20WA01#** |
| | | | | ±0.1pF | **GRM1554C2AR20BA01#** |
| | | | 0.30pF | ±0.05pF | **GRM1554C2AR30WA01#** |
| | | | | ±0.1pF | **GRM1554C2AR30BA01#** |
| | | | 0.40pF | ±0.05pF | **GRM1554C2AR40WA01#** |
| | | | | ±0.1pF | **GRM1554C2AR40BA01#** |
| | | | 0.50pF | ±0.05pF | **GRM1554C2AR50WA01#** |
| | | | | ±0.1pF | **GRM1554C2AR50BA01#** |
| | | | 0.60pF | ±0.05pF | **GRM1554C2AR60WA01#** |
| | | | | ±0.1pF | **GRM1554C2AR60BA01#** |
| | | | 0.70pF | ±0.05pF | **GRM1554C2AR70WA01#** |
| | | | | ±0.1pF | **GRM1554C2AR70BA01#** |
| | | | 0.80pF | ±0.05pF | **GRM1554C2AR80WA01#** |
| | | | | ±0.1pF | **GRM1554C2AR80BA01#** |
| | | | 0.90pF | ±0.05pF | **GRM1554C2AR90WA01#** |
| | | | | ±0.1pF | **GRM1554C2AR90BA01#** |
| | | | 1.0pF | ±0.05pF | **GRM1554C2A1R0WA01#** |
| | | | | ±0.1pF | **GRM1554C2A1R0BA01#** |
| | | | | ±0.25pF | **GRM1554C2A1R0CA01#** |
| | | | 1.1pF | ±0.05pF | **GRM1554C2A1R1WA01#** |
| | | | | ±0.1pF | **GRM1554C2A1R1BA01#** |
| | | | | ±0.25pF | **GRM1554C2A1R1CA01#** |
| | | | 1.2pF | ±0.05pF | **GRM1554C2A1R2WA01#** |
| | | | | ±0.1pF | **GRM1554C2A1R2BA01#** |
| | | | | ±0.25pF | **GRM1554C2A1R2CA01#** |
| | | | 1.3pF | ±0.05pF | **GRM1554C2A1R3WA01#** |
| | | | | ±0.1pF | **GRM1554C2A1R3BA01#** |
| | | | | ±0.25pF | **GRM1554C2A1R3CA01#** |
| | | | 1.4pF | ±0.05pF | **GRM1554C2A1R4WA01#** |
| | | | | ±0.1pF | **GRM1554C2A1R4BA01#** |
| | | | | ±0.25pF | **GRM1554C2A1R4CA01#** |
| | | | 1.5pF | ±0.05pF | **GRM1554C2A1R5WA01#** |
| | | | | ±0.1pF | **GRM1554C2A1R5BA01#** |
| | | | | ±0.25pF | **GRM1554C2A1R5CA01#** |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.55mm | 100Vdc | CK | 1.6pF | ±0.05pF | **GRM1554C2A1R6WA01#** | |
| | | | | ±0.1pF | **GRM1554C2A1R6BA01#** | |
| | | | | ±0.25pF | **GRM1554C2A1R6CA01#** | |
| | | | 1.7pF | ±0.05pF | **GRM1554C2A1R7WA01#** | |
| | | | | ±0.1pF | **GRM1554C2A1R7BA01#** | |
| | | | | ±0.25pF | **GRM1554C2A1R7CA01#** | |
| | | | 1.8pF | ±0.05pF | **GRM1554C2A1R8WA01#** | |
| | | | | ±0.1pF | **GRM1554C2A1R8BA01#** | |
| | | | | ±0.25pF | **GRM1554C2A1R8CA01#** | |
| | | | 1.9pF | ±0.05pF | **GRM1554C2A1R9WA01#** | |
| | | | | ±0.1pF | **GRM1554C2A1R9BA01#** | |
| | | | | ±0.25pF | **GRM1554C2A1R9CA01#** | |
| | | | 2.0pF | ±0.05pF | **GRM1554C2A2R0WA01#** | |
| | | | | ±0.1pF | **GRM1554C2A2R0BA01#** | |
| | | | | ±0.25pF | **GRM1554C2A2R0CA01#** | |
| | | CJ | 2.1pF | ±0.05pF | **GRM1553C2A2R1WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A2R1BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A2R1CA01#** | |
| | | | 2.2pF | ±0.05pF | **GRM1553C2A2R2WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A2R2BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A2R2CA01#** | |
| | | | 2.3pF | ±0.05pF | **GRM1553C2A2R3WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A2R3BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A2R3CA01#** | |
| | | | 2.4pF | ±0.05pF | **GRM1553C2A2R4WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A2R4BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A2R4CA01#** | |
| | | | 2.5pF | ±0.05pF | **GRM1553C2A2R5WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A2R5BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A2R5CA01#** | |
| | | | 2.6pF | ±0.05pF | **GRM1553C2A2R6WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A2R6BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A2R6CA01#** | |
| | | | 2.7pF | ±0.05pF | **GRM1553C2A2R7WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A2R7BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A2R7CA01#** | |
| | | | 2.8pF | ±0.05pF | **GRM1553C2A2R8WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A2R8BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A2R8CA01#** | |
| | | | 2.9pF | ±0.05pF | **GRM1553C2A2R9WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A2R9BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A2R9CA01#** | |
| | | | 3.0pF | ±0.05pF | **GRM1553C2A3R0WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A3R0BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A3R0CA01#** | |
| | | | 3.1pF | ±0.05pF | **GRM1553C2A3R1WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A3R1BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A3R1CA01#** | |
| | | | 3.2pF | ±0.05pF | **GRM1553C2A3R2WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A3R2BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A3R2CA01#** | |
| | | | 3.3pF | ±0.05pF | **GRM1553C2A3R3WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A3R3BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A3R3CA01#** | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.55mm | 100Vdc | CJ | 3.4pF | ±0.05pF | **GRM1553C2A3R4WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A3R4BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A3R4CA01#** | |
| | | | 3.5pF | ±0.05pF | **GRM1553C2A3R5WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A3R5BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A3R5CA01#** | |
| | | | 3.6pF | ±0.05pF | **GRM1553C2A3R6WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A3R6BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A3R6CA01#** | |
| | | | 3.7pF | ±0.05pF | **GRM1553C2A3R7WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A3R7BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A3R7CA01#** | |
| | | | 3.8pF | ±0.05pF | **GRM1553C2A3R8WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A3R8BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A3R8CA01#** | |
| | | | 3.9pF | ±0.05pF | **GRM1553C2A3R9WA01#** | |
| | | | | ±0.1pF | **GRM1553C2A3R9BA01#** | |
| | | | | ±0.25pF | **GRM1553C2A3R9CA01#** | |
| | | CH | 4.0pF | ±0.05pF | **GRM1552C2A4R0WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A4R0BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A4R0CA01#** | |
| | | | 4.1pF | ±0.05pF | **GRM1552C2A4R1WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A4R1BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A4R1CA01#** | |
| | | | 4.2pF | ±0.05pF | **GRM1552C2A4R2WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A4R2BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A4R2CA01#** | |
| | | | 4.3pF | ±0.05pF | **GRM1552C2A4R3WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A4R3BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A4R3CA01#** | |
| | | | 4.4pF | ±0.05pF | **GRM1552C2A4R4WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A4R4BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A4R4CA01#** | |
| | | | 4.5pF | ±0.05pF | **GRM1552C2A4R5WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A4R5BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A4R5CA01#** | |
| | | | 4.6pF | ±0.05pF | **GRM1552C2A4R6WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A4R6BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A4R6CA01#** | |
| | | | 4.7pF | ±0.05pF | **GRM1552C2A4R7WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A4R7BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A4R7CA01#** | |
| | | | 4.8pF | ±0.05pF | **GRM1552C2A4R8WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A4R8BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A4R8CA01#** | |
| | | | 4.9pF | ±0.05pF | **GRM1552C2A4R9WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A4R9BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A4R9CA01#** | |
| | | | 5.0pF | ±0.05pF | **GRM1552C2A5R0WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A5R0BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A5R0CA01#** | |
| | | | 5.1pF | ±0.05pF | **GRM1552C2A5R1WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A5R1BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A5R1CA01#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.55mm | 100Vdc | CH | 5.1pF | ±0.5pF | **GRM1552C2A5R1DA01#** |
| | | | 5.2pF | ±0.05pF | **GRM1552C2A5R2WA01#** |
| | | | | ±0.1pF | **GRM1552C2A5R2BA01#** |
| | | | | ±0.25pF | **GRM1552C2A5R2CA01#** |
| | | | | ±0.5pF | **GRM1552C2A5R2DA01#** |
| | | | 5.3pF | ±0.05pF | **GRM1552C2A5R3WA01#** |
| | | | | ±0.1pF | **GRM1552C2A5R3BA01#** |
| | | | | ±0.25pF | **GRM1552C2A5R3CA01#** |
| | | | | ±0.5pF | **GRM1552C2A5R3DA01#** |
| | | | 5.4pF | ±0.05pF | **GRM1552C2A5R4WA01#** |
| | | | | ±0.1pF | **GRM1552C2A5R4BA01#** |
| | | | | ±0.25pF | **GRM1552C2A5R4CA01#** |
| | | | | ±0.5pF | **GRM1552C2A5R4DA01#** |
| | | | 5.5pF | ±0.05pF | **GRM1552C2A5R5WA01#** |
| | | | | ±0.1pF | **GRM1552C2A5R5BA01#** |
| | | | | ±0.25pF | **GRM1552C2A5R5CA01#** |
| | | | | ±0.5pF | **GRM1552C2A5R5DA01#** |
| | | | 5.6pF | ±0.05pF | **GRM1552C2A5R6WA01#** |
| | | | | ±0.1pF | **GRM1552C2A5R6BA01#** |
| | | | | ±0.25pF | **GRM1552C2A5R6CA01#** |
| | | | | ±0.5pF | **GRM1552C2A5R6DA01#** |
| | | | 5.7pF | ±0.05pF | **GRM1552C2A5R7WA01#** |
| | | | | ±0.1pF | **GRM1552C2A5R7BA01#** |
| | | | | ±0.25pF | **GRM1552C2A5R7CA01#** |
| | | | | ±0.5pF | **GRM1552C2A5R7DA01#** |
| | | | 5.8pF | ±0.05pF | **GRM1552C2A5R8WA01#** |
| | | | | ±0.1pF | **GRM1552C2A5R8BA01#** |
| | | | | ±0.25pF | **GRM1552C2A5R8CA01#** |
| | | | | ±0.5pF | **GRM1552C2A5R8DA01#** |
| | | | 5.9pF | ±0.05pF | **GRM1552C2A5R9WA01#** |
| | | | | ±0.1pF | **GRM1552C2A5R9BA01#** |
| | | | | ±0.25pF | **GRM1552C2A5R9CA01#** |
| | | | | ±0.5pF | **GRM1552C2A5R9DA01#** |
| | | | 6.0pF | ±0.05pF | **GRM1552C2A6R0WA01#** |
| | | | | ±0.1pF | **GRM1552C2A6R0BA01#** |
| | | | | ±0.25pF | **GRM1552C2A6R0CA01#** |
| | | | | ±0.5pF | **GRM1552C2A6R0DA01#** |
| | | | 6.1pF | ±0.05pF | **GRM1552C2A6R1WA01#** |
| | | | | ±0.1pF | **GRM1552C2A6R1BA01#** |
| | | | | ±0.25pF | **GRM1552C2A6R1CA01#** |
| | | | | ±0.5pF | **GRM1552C2A6R1DA01#** |
| | | | 6.2pF | ±0.05pF | **GRM1552C2A6R2WA01#** |
| | | | | ±0.1pF | **GRM1552C2A6R2BA01#** |
| | | | | ±0.25pF | **GRM1552C2A6R2CA01#** |
| | | | | ±0.5pF | **GRM1552C2A6R2DA01#** |
| | | | 6.3pF | ±0.05pF | **GRM1552C2A6R3WA01#** |
| | | | | ±0.1pF | **GRM1552C2A6R3BA01#** |
| | | | | ±0.25pF | **GRM1552C2A6R3CA01#** |
| | | | | ±0.5pF | **GRM1552C2A6R3DA01#** |
| | | | 6.4pF | ±0.05pF | **GRM1552C2A6R4WA01#** |
| | | | | ±0.1pF | **GRM1552C2A6R4BA01#** |
| | | | | ±0.25pF | **GRM1552C2A6R4CA01#** |
| | | | | ±0.5pF | **GRM1552C2A6R4DA01#** |
| | | | 6.5pF | ±0.05pF | **GRM1552C2A6R5WA01#** |
| | | | | ±0.1pF | **GRM1552C2A6R5BA01#** |
| | | | | ±0.25pF | **GRM1552C2A6R5CA01#** |
| | | | | ±0.5pF | **GRM1552C2A6R5DA01#** |
| | | | 6.6pF | ±0.05pF | **GRM1552C2A6R6WA01#** |
| | | | | ±0.1pF | **GRM1552C2A6R6BA01#** |
| | | | | ±0.25pF | **GRM1552C2A6R6CA01#** |
| | | | | ±0.5pF | **GRM1552C2A6R6DA01#** |
| | | | 6.7pF | ±0.05pF | **GRM1552C2A6R7WA01#** |
| | | | | ±0.1pF | **GRM1552C2A6R7BA01#** |
| | | | | ±0.25pF | **GRM1552C2A6R7CA01#** |
| | | | | ±0.5pF | **GRM1552C2A6R7DA01#** |
| | | | 6.8pF | ±0.05pF | **GRM1552C2A6R8WA01#** |
| | | | | ±0.1pF | **GRM1552C2A6R8BA01#** |
| | | | | ±0.25pF | **GRM1552C2A6R8CA01#** |
| | | | | ±0.5pF | **GRM1552C2A6R8DA01#** |
| | | | 6.9pF | ±0.05pF | **GRM1552C2A6R9WA01#** |
| | | | | ±0.1pF | **GRM1552C2A6R9BA01#** |
| | | | | ±0.25pF | **GRM1552C2A6R9CA01#** |
| | | | | ±0.5pF | **GRM1552C2A6R9DA01#** |
| | | | 7.0pF | ±0.05pF | **GRM1552C2A7R0WA01#** |
| | | | | ±0.1pF | **GRM1552C2A7R0BA01#** |
| | | | | ±0.25pF | **GRM1552C2A7R0CA01#** |
| | | | | ±0.5pF | **GRM1552C2A7R0DA01#** |
| | | | 7.1pF | ±0.05pF | **GRM1552C2A7R1WA01#** |
| | | | | ±0.1pF | **GRM1552C2A7R1BA01#** |
| | | | | ±0.25pF | **GRM1552C2A7R1CA01#** |
| | | | | ±0.5pF | **GRM1552C2A7R1DA01#** |
| | | | 7.2pF | ±0.05pF | **GRM1552C2A7R2WA01#** |
| | | | | ±0.1pF | **GRM1552C2A7R2BA01#** |
| | | | | ±0.25pF | **GRM1552C2A7R2CA01#** |
| | | | | ±0.5pF | **GRM1552C2A7R2DA01#** |
| | | | 7.3pF | ±0.05pF | **GRM1552C2A7R3WA01#** |
| | | | | ±0.1pF | **GRM1552C2A7R3BA01#** |
| | | | | ±0.25pF | **GRM1552C2A7R3CA01#** |
| | | | | ±0.5pF | **GRM1552C2A7R3DA01#** |
| | | | 7.4pF | ±0.05pF | **GRM1552C2A7R4WA01#** |
| | | | | ±0.1pF | **GRM1552C2A7R4BA01#** |
| | | | | ±0.25pF | **GRM1552C2A7R4CA01#** |
| | | | | ±0.5pF | **GRM1552C2A7R4DA01#** |
| | | | 7.5pF | ±0.05pF | **GRM1552C2A7R5WA01#** |
| | | | | ±0.1pF | **GRM1552C2A7R5BA01#** |
| | | | | ±0.25pF | **GRM1552C2A7R5CA01#** |
| | | | | ±0.5pF | **GRM1552C2A7R5DA01#** |
| | | | 7.6pF | ±0.05pF | **GRM1552C2A7R6WA01#** |
| | | | | ±0.1pF | **GRM1552C2A7R6BA01#** |
| | | | | ±0.25pF | **GRM1552C2A7R6CA01#** |
| | | | | ±0.5pF | **GRM1552C2A7R6DA01#** |
| | | | 7.7pF | ±0.05pF | **GRM1552C2A7R7WA01#** |
| | | | | ±0.1pF | **GRM1552C2A7R7BA01#** |
| | | | | ±0.25pF | **GRM1552C2A7R7CA01#** |
| | | | | ±0.5pF | **GRM1552C2A7R7DA01#** |
| | | | 7.8pF | ±0.05pF | **GRM1552C2A7R8WA01#** |
| | | | | ±0.1pF | **GRM1552C2A7R8BA01#** |
| | | | | ±0.25pF | **GRM1552C2A7R8CA01#** |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.55mm | 100Vdc | CH | 7.8pF | ±0.5pF | **GRM1552C2A7R8DA01#** | |
| | | | 7.9pF | ±0.05pF | **GRM1552C2A7R9WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A7R9BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A7R9CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A7R9DA01#** | |
| | | | 8.0pF | ±0.05pF | **GRM1552C2A8R0WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A8R0BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A8R0CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A8R0DA01#** | |
| | | | 8.1pF | ±0.05pF | **GRM1552C2A8R1WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A8R1BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A8R1CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A8R1DA01#** | |
| | | | 8.2pF | ±0.05pF | **GRM1552C2A8R2WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A8R2BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A8R2CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A8R2DA01#** | |
| | | | 8.3pF | ±0.05pF | **GRM1552C2A8R3WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A8R3BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A8R3CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A8R3DA01#** | |
| | | | 8.4pF | ±0.05pF | **GRM1552C2A8R4WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A8R4BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A8R4CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A8R4DA01#** | |
| | | | 8.5pF | ±0.05pF | **GRM1552C2A8R5WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A8R5BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A8R5CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A8R5DA01#** | |
| | | | 8.6pF | ±0.05pF | **GRM1552C2A8R6WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A8R6BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A8R6CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A8R6DA01#** | |
| | | | 8.7pF | ±0.05pF | **GRM1552C2A8R7WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A8R7BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A8R7CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A8R7DA01#** | |
| | | | 8.8pF | ±0.05pF | **GRM1552C2A8R8WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A8R8BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A8R8CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A8R8DA01#** | |
| | | | 8.9pF | ±0.05pF | **GRM1552C2A8R9WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A8R9BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A8R9CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A8R9DA01#** | |
| | | | 9.0pF | ±0.05pF | **GRM1552C2A9R0WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A9R0BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A9R0CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A9R0DA01#** | |
| | | | 9.1pF | ±0.05pF | **GRM1552C2A9R1WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A9R1BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A9R1CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A9R1DA01#** | |
| | | | 9.2pF | ±0.05pF | **GRM1552C2A9R2WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A9R2BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A9R2CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A9R2DA01#** | |
| | | | 9.3pF | ±0.05pF | **GRM1552C2A9R3WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A9R3BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A9R3CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A9R3DA01#** | |
| | | | 9.4pF | ±0.05pF | **GRM1552C2A9R4WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A9R4BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A9R4CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A9R4DA01#** | |
| | | | 9.5pF | ±0.05pF | **GRM1552C2A9R5WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A9R5BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A9R5CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A9R5DA01#** | |
| | | | 9.6pF | ±0.05pF | **GRM1552C2A9R6WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A9R6BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A9R6CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A9R6DA01#** | |
| | | | 9.7pF | ±0.05pF | **GRM1552C2A9R7WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A9R7BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A9R7CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A9R7DA01#** | |
| | | | 9.8pF | ±0.05pF | **GRM1552C2A9R8WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A9R8BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A9R8CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A9R8DA01#** | |
| | | | 9.9pF | ±0.05pF | **GRM1552C2A9R9WA01#** | |
| | | | | ±0.1pF | **GRM1552C2A9R9BA01#** | |
| | | | | ±0.25pF | **GRM1552C2A9R9CA01#** | |
| | | | | ±0.5pF | **GRM1552C2A9R9DA01#** | |
| | | | 10pF | ±2% | **GRM1552C2A100GA01#** | |
| | | | | ±5% | **GRM1552C2A100JA01#** | |
| | | | 12pF | ±2% | **GRM1552C2A120GA01#** | |
| | | | | ±5% | **GRM1552C2A120JA01#** | |
| | | | 15pF | ±2% | **GRM1552C2A150GA01#** | |
| | | | | ±5% | **GRM1552C2A150JA01#** | |
| | | | 18pF | ±2% | **GRM1552C2A180GA01#** | |
| | | | | ±5% | **GRM1552C2A180JA01#** | |
| | | | 22pF | ±2% | **GRM1552C2A220GA01#** | |
| | | | | ±5% | **GRM1552C2A220JA01#** | |
| | | | 27pF | ±2% | **GRM1552C2A270GA01#** | |
| | | | | ±5% | **GRM1552C2A270JA01#** | |
| | | | 33pF | ±2% | **GRM1552C2A330GA01#** | |
| | | | | ±5% | **GRM1552C2A330JA01#** | |
| | | | 39pF | ±2% | **GRM1552C2A390GA01#** | |
| | | | | ±5% | **GRM1552C2A390JA01#** | |
| | | | 47pF | ±2% | **GRM1552C2A470GA01#** | |
| | | | | ±5% | **GRM1552C2A470JA01#** | |
| | | | 56pF | ±2% | **GRM1552C2A560GA01#** | |
| | | | | ±5% | **GRM1552C2A560JA01#** | |
| | | | 68pF | ±2% | **GRM1552C2A680GA01#** | |
| | | | | ±5% | **GRM1552C2A680JA01#** | |
| | | | 82pF | ±2% | **GRM1552C2A820GA01#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.55mm | 100Vdc | CH | 82pF | ±5% | GRM1552C2A820JA01# |
| | | | 100pF | ±2% | GRM1552C2A101GA01# |
| | | | | ±5% | GRM1552C2A101JA01# |
| | 50Vdc | C0G | 0.10pF | ±0.05pF | GRM1555C1HR10WA01# |
| | | | 0.20pF | ±0.05pF | GRM1555C1HR20WA01# |
| | | | | ±0.1pF | GRM1555C1HR20BA01# |
| | | | 0.30pF | ±0.05pF | GRM1555C1HR30WA01# |
| | | | | ±0.1pF | GRM1555C1HR30BA01# |
| | | | 0.40pF | ±0.05pF | GRM1555C1HR40WA01# |
| | | | | ±0.1pF | GRM1555C1HR40BA01# |
| | | | 0.50pF | ±0.05pF | GRM1555C1HR50WA01# |
| | | | | ±0.1pF | GRM1555C1HR50BA01# |
| | | | 0.60pF | ±0.05pF | GRM1555C1HR60WA01# |
| | | | | ±0.1pF | GRM1555C1HR60BA01# |
| | | | 0.70pF | ±0.05pF | GRM1555C1HR70WA01# |
| | | | | ±0.1pF | GRM1555C1HR70BA01# |
| | | | 0.80pF | ±0.05pF | GRM1555C1HR80WA01# |
| | | | | ±0.1pF | GRM1555C1HR80BA01# |
| | | | 0.90pF | ±0.05pF | GRM1555C1HR90WA01# |
| | | | | ±0.1pF | GRM1555C1HR90BA01# |
| | | | 1.0pF | ±0.05pF | GRM1555C1H1R0WA01# |
| | | | | ±0.1pF | GRM1555C1H1R0BA01# |
| | | | | ±0.25pF | GRM1555C1H1R0CA01# |
| | | | 1.1pF | ±0.05pF | GRM1555C1H1R1WA01# |
| | | | | ±0.1pF | GRM1555C1H1R1BA01# |
| | | | | ±0.25pF | GRM1555C1H1R1CA01# |
| | | | 1.2pF | ±0.05pF | GRM1555C1H1R2WA01# |
| | | | | ±0.1pF | GRM1555C1H1R2BA01# |
| | | | | ±0.25pF | GRM1555C1H1R2CA01# |
| | | | 1.3pF | ±0.05pF | GRM1555C1H1R3WA01# |
| | | | | ±0.1pF | GRM1555C1H1R3BA01# |
| | | | | ±0.25pF | GRM1555C1H1R3CA01# |
| | | | 1.4pF | ±0.05pF | GRM1555C1H1R4WA01# |
| | | | | ±0.1pF | GRM1555C1H1R4BA01# |
| | | | | ±0.25pF | GRM1555C1H1R4CA01# |
| | | | 1.5pF | ±0.05pF | GRM1555C1H1R5WA01# |
| | | | | ±0.1pF | GRM1555C1H1R5BA01# |
| | | | | ±0.25pF | GRM1555C1H1R5CA01# |
| | | | 1.6pF | ±0.05pF | GRM1555C1H1R6WA01# |
| | | | | ±0.1pF | GRM1555C1H1R6BA01# |
| | | | | ±0.25pF | GRM1555C1H1R6CA01# |
| | | | 1.7pF | ±0.05pF | GRM1555C1H1R7WA01# |
| | | | | ±0.1pF | GRM1555C1H1R7BA01# |
| | | | | ±0.25pF | GRM1555C1H1R7CA01# |
| | | | 1.8pF | ±0.05pF | GRM1555C1H1R8WA01# |
| | | | | ±0.1pF | GRM1555C1H1R8BA01# |
| | | | | ±0.25pF | GRM1555C1H1R8CA01# |
| | | | 1.9pF | ±0.05pF | GRM1555C1H1R9WA01# |
| | | | | ±0.1pF | GRM1555C1H1R9BA01# |
| | | | | ±0.25pF | GRM1555C1H1R9CA01# |
| | | | 2.0pF | ±0.05pF | GRM1555C1H2R0WA01# |
| | | | | ±0.1pF | GRM1555C1H2R0BA01# |
| | | | | ±0.25pF | GRM1555C1H2R0CA01# |
| | | | 2.1pF | ±0.05pF | GRM1555C1H2R1WA01# |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.55mm | 50Vdc | C0G | 2.1pF | ±0.1pF | GRM1555C1H2R1BA01# |
| | | | | ±0.25pF | GRM1555C1H2R1CA01# |
| | | | 2.2pF | ±0.05pF | GRM1555C1H2R2WA01# |
| | | | | ±0.1pF | GRM1555C1H2R2BA01# |
| | | | | ±0.25pF | GRM1555C1H2R2CA01# |
| | | | 2.3pF | ±0.05pF | GRM1555C1H2R3WA01# |
| | | | | ±0.1pF | GRM1555C1H2R3BA01# |
| | | | | ±0.25pF | GRM1555C1H2R3CA01# |
| | | | 2.4pF | ±0.05pF | GRM1555C1H2R4WA01# |
| | | | | ±0.1pF | GRM1555C1H2R4BA01# |
| | | | | ±0.25pF | GRM1555C1H2R4CA01# |
| | | | 2.5pF | ±0.05pF | GRM1555C1H2R5WA01# |
| | | | | ±0.1pF | GRM1555C1H2R5BA01# |
| | | | | ±0.25pF | GRM1555C1H2R5CA01# |
| | | | 2.6pF | ±0.05pF | GRM1555C1H2R6WA01# |
| | | | | ±0.1pF | GRM1555C1H2R6BA01# |
| | | | | ±0.25pF | GRM1555C1H2R6CA01# |
| | | | 2.7pF | ±0.05pF | GRM1555C1H2R7WA01# |
| | | | | ±0.1pF | GRM1555C1H2R7BA01# |
| | | | | ±0.25pF | GRM1555C1H2R7CA01# |
| | | | 2.8pF | ±0.05pF | GRM1555C1H2R8WA01# |
| | | | | ±0.1pF | GRM1555C1H2R8BA01# |
| | | | | ±0.25pF | GRM1555C1H2R8CA01# |
| | | | 2.9pF | ±0.05pF | GRM1555C1H2R9WA01# |
| | | | | ±0.1pF | GRM1555C1H2R9BA01# |
| | | | | ±0.25pF | GRM1555C1H2R9CA01# |
| | | | 3.0pF | ±0.05pF | GRM1555C1H3R0WA01# |
| | | | | ±0.1pF | GRM1555C1H3R0BA01# |
| | | | | ±0.25pF | GRM1555C1H3R0CA01# |
| | | | 3.1pF | ±0.05pF | GRM1555C1H3R1WA01# |
| | | | | ±0.1pF | GRM1555C1H3R1BA01# |
| | | | | ±0.25pF | GRM1555C1H3R1CA01# |
| | | | 3.2pF | ±0.05pF | GRM1555C1H3R2WA01# |
| | | | | ±0.1pF | GRM1555C1H3R2BA01# |
| | | | | ±0.25pF | GRM1555C1H3R2CA01# |
| | | | 3.3pF | ±0.05pF | GRM1555C1H3R3WA01# |
| | | | | ±0.1pF | GRM1555C1H3R3BA01# |
| | | | | ±0.25pF | GRM1555C1H3R3CA01# |
| | | | 3.4pF | ±0.05pF | GRM1555C1H3R4WA01# |
| | | | | ±0.1pF | GRM1555C1H3R4BA01# |
| | | | | ±0.25pF | GRM1555C1H3R4CA01# |
| | | | 3.5pF | ±0.05pF | GRM1555C1H3R5WA01# |
| | | | | ±0.1pF | GRM1555C1H3R5BA01# |
| | | | | ±0.25pF | GRM1555C1H3R5CA01# |
| | | | 3.6pF | ±0.05pF | GRM1555C1H3R6WA01# |
| | | | | ±0.1pF | GRM1555C1H3R6BA01# |
| | | | | ±0.25pF | GRM1555C1H3R6CA01# |
| | | | 3.7pF | ±0.05pF | GRM1555C1H3R7WA01# |
| | | | | ±0.1pF | GRM1555C1H3R7BA01# |
| | | | | ±0.25pF | GRM1555C1H3R7CA01# |
| | | | 3.8pF | ±0.05pF | GRM1555C1H3R8WA01# |
| | | | | ±0.1pF | GRM1555C1H3R8BA01# |
| | | | | ±0.25pF | GRM1555C1H3R8CA01# |
| | | | 3.9pF | ±0.05pF | GRM1555C1H3R9WA01# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.55mm | 50Vdc | C0G | 3.9pF | ±0.1pF | GRM1555C1H3R9BA01# |
| | | | | ±0.25pF | GRM1555C1H3R9CA01# |
| | | | 4.0pF | ±0.05pF | GRM1555C1H4R0WA01# |
| | | | | ±0.1pF | GRM1555C1H4R0BA01# |
| | | | | ±0.25pF | GRM1555C1H4R0CA01# |
| | | | 4.1pF | ±0.05pF | GRM1555C1H4R1WA01# |
| | | | | ±0.1pF | GRM1555C1H4R1BA01# |
| | | | | ±0.25pF | GRM1555C1H4R1CA01# |
| | | | 4.2pF | ±0.05pF | GRM1555C1H4R2WA01# |
| | | | | ±0.1pF | GRM1555C1H4R2BA01# |
| | | | | ±0.25pF | GRM1555C1H4R2CA01# |
| | | | 4.3pF | ±0.05pF | GRM1555C1H4R3WA01# |
| | | | | ±0.1pF | GRM1555C1H4R3BA01# |
| | | | | ±0.25pF | GRM1555C1H4R3CA01# |
| | | | 4.4pF | ±0.05pF | GRM1555C1H4R4WA01# |
| | | | | ±0.1pF | GRM1555C1H4R4BA01# |
| | | | | ±0.25pF | GRM1555C1H4R4CA01# |
| | | | 4.5pF | ±0.05pF | GRM1555C1H4R5WA01# |
| | | | | ±0.1pF | GRM1555C1H4R5BA01# |
| | | | | ±0.25pF | GRM1555C1H4R5CA01# |
| | | | 4.6pF | ±0.05pF | GRM1555C1H4R6WA01# |
| | | | | ±0.1pF | GRM1555C1H4R6BA01# |
| | | | | ±0.25pF | GRM1555C1H4R6CA01# |
| | | | 4.7pF | ±0.05pF | GRM1555C1H4R7WA01# |
| | | | | ±0.1pF | GRM1555C1H4R7BA01# |
| | | | | ±0.25pF | GRM1555C1H4R7CA01# |
| | | | 4.8pF | ±0.05pF | GRM1555C1H4R8WA01# |
| | | | | ±0.1pF | GRM1555C1H4R8BA01# |
| | | | | ±0.25pF | GRM1555C1H4R8CA01# |
| | | | 4.9pF | ±0.05pF | GRM1555C1H4R9WA01# |
| | | | | ±0.1pF | GRM1555C1H4R9BA01# |
| | | | | ±0.25pF | GRM1555C1H4R9CA01# |
| | | | 5.0pF | ±0.05pF | GRM1555C1H5R0WA01# |
| | | | | ±0.1pF | GRM1555C1H5R0BA01# |
| | | | | ±0.25pF | GRM1555C1H5R0CA01# |
| | | | 5.1pF | ±0.05pF | GRM1555C1H5R1WA01# |
| | | | | ±0.1pF | GRM1555C1H5R1BA01# |
| | | | | ±0.25pF | GRM1555C1H5R1CA01# |
| | | | | ±0.5pF | GRM1555C1H5R1DA01# |
| | | | 5.2pF | ±0.05pF | GRM1555C1H5R2WA01# |
| | | | | ±0.1pF | GRM1555C1H5R2BA01# |
| | | | | ±0.25pF | GRM1555C1H5R2CA01# |
| | | | | ±0.5pF | GRM1555C1H5R2DA01# |
| | | | 5.3pF | ±0.05pF | GRM1555C1H5R3WA01# |
| | | | | ±0.1pF | GRM1555C1H5R3BA01# |
| | | | | ±0.25pF | GRM1555C1H5R3CA01# |
| | | | | ±0.5pF | GRM1555C1H5R3DA01# |
| | | | 5.4pF | ±0.05pF | GRM1555C1H5R4WA01# |
| | | | | ±0.1pF | GRM1555C1H5R4BA01# |
| | | | | ±0.25pF | GRM1555C1H5R4CA01# |
| | | | | ±0.5pF | GRM1555C1H5R4DA01# |
| | | | 5.5pF | ±0.05pF | GRM1555C1H5R5WA01# |
| | | | | ±0.1pF | GRM1555C1H5R5BA01# |
| | | | | ±0.25pF | GRM1555C1H5R5CA01# |
| | | | | ±0.5pF | GRM1555C1H5R5DA01# |
| | | | 5.6pF | ±0.05pF | GRM1555C1H5R6WA01# |
| | | | | ±0.1pF | GRM1555C1H5R6BA01# |
| | | | | ±0.25pF | GRM1555C1H5R6CA01# |
| | | | | ±0.5pF | GRM1555C1H5R6DA01# |
| | | | 5.7pF | ±0.05pF | GRM1555C1H5R7WA01# |
| | | | | ±0.1pF | GRM1555C1H5R7BA01# |
| | | | | ±0.25pF | GRM1555C1H5R7CA01# |
| | | | | ±0.5pF | GRM1555C1H5R7DA01# |
| | | | 5.8pF | ±0.05pF | GRM1555C1H5R8WA01# |
| | | | | ±0.1pF | GRM1555C1H5R8BA01# |
| | | | | ±0.25pF | GRM1555C1H5R8CA01# |
| | | | | ±0.5pF | GRM1555C1H5R8DA01# |
| | | | 5.9pF | ±0.05pF | GRM1555C1H5R9WA01# |
| | | | | ±0.1pF | GRM1555C1H5R9BA01# |
| | | | | ±0.25pF | GRM1555C1H5R9CA01# |
| | | | | ±0.5pF | GRM1555C1H5R9DA01# |
| | | | 6.0pF | ±0.05pF | GRM1555C1H6R0WA01# |
| | | | | ±0.1pF | GRM1555C1H6R0BA01# |
| | | | | ±0.25pF | GRM1555C1H6R0CA01# |
| | | | | ±0.5pF | GRM1555C1H6R0DA01# |
| | | | 6.1pF | ±0.05pF | GRM1555C1H6R1WA01# |
| | | | | ±0.1pF | GRM1555C1H6R1BA01# |
| | | | | ±0.25pF | GRM1555C1H6R1CA01# |
| | | | | ±0.5pF | GRM1555C1H6R1DA01# |
| | | | 6.2pF | ±0.05pF | GRM1555C1H6R2WA01# |
| | | | | ±0.1pF | GRM1555C1H6R2BA01# |
| | | | | ±0.25pF | GRM1555C1H6R2CA01# |
| | | | | ±0.5pF | GRM1555C1H6R2DA01# |
| | | | 6.3pF | ±0.05pF | GRM1555C1H6R3WA01# |
| | | | | ±0.1pF | GRM1555C1H6R3BA01# |
| | | | | ±0.25pF | GRM1555C1H6R3CA01# |
| | | | | ±0.5pF | GRM1555C1H6R3DA01# |
| | | | 6.4pF | ±0.05pF | GRM1555C1H6R4WA01# |
| | | | | ±0.1pF | GRM1555C1H6R4BA01# |
| | | | | ±0.25pF | GRM1555C1H6R4CA01# |
| | | | | ±0.5pF | GRM1555C1H6R4DA01# |
| | | | 6.5pF | ±0.05pF | GRM1555C1H6R5WA01# |
| | | | | ±0.1pF | GRM1555C1H6R5BA01# |
| | | | | ±0.25pF | GRM1555C1H6R5CA01# |
| | | | | ±0.5pF | GRM1555C1H6R5DA01# |
| | | | 6.6pF | ±0.05pF | GRM1555C1H6R6WA01# |
| | | | | ±0.1pF | GRM1555C1H6R6BA01# |
| | | | | ±0.25pF | GRM1555C1H6R6CA01# |
| | | | | ±0.5pF | GRM1555C1H6R6DA01# |
| | | | 6.7pF | ±0.05pF | GRM1555C1H6R7WA01# |
| | | | | ±0.1pF | GRM1555C1H6R7BA01# |
| | | | | ±0.25pF | GRM1555C1H6R7CA01# |
| | | | | ±0.5pF | GRM1555C1H6R7DA01# |
| | | | 6.8pF | ±0.05pF | GRM1555C1H6R8WA01# |
| | | | | ±0.1pF | GRM1555C1H6R8BA01# |
| | | | | ±0.25pF | GRM1555C1H6R8CA01# |
| | | | | ±0.5pF | GRM1555C1H6R8DA01# |
| | | | 6.9pF | ±0.05pF | GRM1555C1H6R9WA01# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.55mm | 50Vdc | C0G | 6.9pF | ±0.1pF | **GRM1555C1H6R9BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H6R9CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H6R9DA01#** | |
| | | | 7.0pF | ±0.05pF | **GRM1555C1H7R0WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H7R0BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H7R0CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H7R0DA01#** | |
| | | | 7.1pF | ±0.05pF | **GRM1555C1H7R1WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H7R1BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H7R1CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H7R1DA01#** | |
| | | | 7.2pF | ±0.05pF | **GRM1555C1H7R2WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H7R2BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H7R2CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H7R2DA01#** | |
| | | | 7.3pF | ±0.05pF | **GRM1555C1H7R3WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H7R3BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H7R3CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H7R3DA01#** | |
| | | | 7.4pF | ±0.05pF | **GRM1555C1H7R4WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H7R4BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H7R4CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H7R4DA01#** | |
| | | | 7.5pF | ±0.05pF | **GRM1555C1H7R5WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H7R5BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H7R5CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H7R5DA01#** | |
| | | | 7.6pF | ±0.05pF | **GRM1555C1H7R6WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H7R6BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H7R6CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H7R6DA01#** | |
| | | | 7.7pF | ±0.05pF | **GRM1555C1H7R7WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H7R7BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H7R7CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H7R7DA01#** | |
| | | | 7.8pF | ±0.05pF | **GRM1555C1H7R8WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H7R8BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H7R8CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H7R8DA01#** | |
| | | | 7.9pF | ±0.05pF | **GRM1555C1H7R9WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H7R9BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H7R9CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H7R9DA01#** | |
| | | | 8.0pF | ±0.05pF | **GRM1555C1H8R0WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H8R0BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H8R0CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H8R0DA01#** | |
| | | | 8.1pF | ±0.05pF | **GRM1555C1H8R1WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H8R1BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H8R1CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H8R1DA01#** | |
| | | | 8.2pF | ±0.05pF | **GRM1555C1H8R2WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H8R2BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H8R2CA01#** | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.55mm | 50Vdc | C0G | 8.2pF | ±0.5pF | **GRM1555C1H8R2DA01#** | |
| | | | 8.3pF | ±0.05pF | **GRM1555C1H8R3WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H8R3BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H8R3CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H8R3DA01#** | |
| | | | 8.4pF | ±0.05pF | **GRM1555C1H8R4WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H8R4BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H8R4CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H8R4DA01#** | |
| | | | 8.5pF | ±0.05pF | **GRM1555C1H8R5WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H8R5BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H8R5CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H8R5DA01#** | |
| | | | 8.6pF | ±0.05pF | **GRM1555C1H8R6WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H8R6BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H8R6CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H8R6DA01#** | |
| | | | 8.7pF | ±0.05pF | **GRM1555C1H8R7WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H8R7BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H8R7CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H8R7DA01#** | |
| | | | 8.8pF | ±0.05pF | **GRM1555C1H8R8WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H8R8BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H8R8CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H8R8DA01#** | |
| | | | 8.9pF | ±0.05pF | **GRM1555C1H8R9WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H8R9BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H8R9CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H8R9DA01#** | |
| | | | 9.0pF | ±0.05pF | **GRM1555C1H9R0WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H9R0BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H9R0CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H9R0DA01#** | |
| | | | 9.1pF | ±0.05pF | **GRM1555C1H9R1WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H9R1BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H9R1CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H9R1DA01#** | |
| | | | 9.2pF | ±0.05pF | **GRM1555C1H9R2WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H9R2BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H9R2CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H9R2DA01#** | |
| | | | 9.3pF | ±0.05pF | **GRM1555C1H9R3WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H9R3BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H9R3CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H9R3DA01#** | |
| | | | 9.4pF | ±0.05pF | **GRM1555C1H9R4WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H9R4BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H9R4CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H9R4DA01#** | |
| | | | 9.5pF | ±0.05pF | **GRM1555C1H9R5WA01#** | |
| | | | | ±0.1pF | **GRM1555C1H9R5BA01#** | |
| | | | | ±0.25pF | **GRM1555C1H9R5CA01#** | |
| | | | | ±0.5pF | **GRM1555C1H9R5DA01#** | |
| | | | 9.6pF | ±0.05pF | **GRM1555C1H9R6WA01#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.55mm | 50Vdc | C0G | 9.6pF | ±0.1pF | GRM1555C1H9R6BA01# | |
| | | | | ±0.25pF | GRM1555C1H9R6CA01# | |
| | | | | ±0.5pF | GRM1555C1H9R6DA01# | |
| | | | 9.7pF | ±0.05pF | GRM1555C1H9R7WA01# | |
| | | | | ±0.1pF | GRM1555C1H9R7BA01# | |
| | | | | ±0.25pF | GRM1555C1H9R7CA01# | |
| | | | | ±0.5pF | GRM1555C1H9R7DA01# | |
| | | | 9.8pF | ±0.05pF | GRM1555C1H9R8WA01# | |
| | | | | ±0.1pF | GRM1555C1H9R8BA01# | |
| | | | | ±0.25pF | GRM1555C1H9R8CA01# | |
| | | | | ±0.5pF | GRM1555C1H9R8DA01# | |
| | | | 9.9pF | ±0.05pF | GRM1555C1H9R9WA01# | |
| | | | | ±0.1pF | GRM1555C1H9R9BA01# | |
| | | | | ±0.25pF | GRM1555C1H9R9CA01# | |
| | | | | ±0.5pF | GRM1555C1H9R9DA01# | |
| | | | 10pF | ±2% | GRM1555C1H100GA01# | |
| | | | | ±5% | GRM1555C1H100JA01# | |
| | | | 12pF | ±2% | GRM1555C1H120GA01# | |
| | | | | ±5% | GRM1555C1H120JA01# | |
| | | | 15pF | ±2% | GRM1555C1H150GA01# | |
| | | | | ±5% | GRM1555C1H150JA01# | |
| | | | 18pF | ±2% | GRM1555C1H180GA01# | |
| | | | | ±5% | GRM1555C1H180JA01# | |
| | | | 22pF | ±2% | GRM1555C1H220GA01# | |
| | | | | ±5% | GRM1555C1H220JA01# | |
| | | | 27pF | ±2% | GRM1555C1H270GA01# | |
| | | | | ±5% | GRM1555C1H270JA01# | |
| | | | 33pF | ±2% | GRM1555C1H330GA01# | |
| | | | | ±5% | GRM1555C1H330JA01# | |
| | | | 39pF | ±2% | GRM1555C1H390GA01# | |
| | | | | ±5% | GRM1555C1H390JA01# | |
| | | | 47pF | ±2% | GRM1555C1H470GA01# | |
| | | | | ±5% | GRM1555C1H470JA01# | |
| | | | 56pF | ±2% | GRM1555C1H560GA01# | |
| | | | | ±5% | GRM1555C1H560JA01# | |
| | | | 68pF | ±2% | GRM1555C1H680GA01# | |
| | | | | ±5% | GRM1555C1H680JA01# | |
| | | | 82pF | ±2% | GRM1555C1H820GA01# | |
| | | | | ±5% | GRM1555C1H820JA01# | |
| | | | 100pF | ±2% | GRM1555C1H101GA01# | |
| | | | | ±5% | GRM1555C1H101JA01# | |
| | | | 120pF | ±2% | GRM1555C1H121GA01# | |
| | | | | ±5% | GRM1555C1H121JA01# | |
| | | | 150pF | ±2% | GRM1555C1H151GA01# | |
| | | | | ±5% | GRM1555C1H151JA01# | |
| | | | 180pF | ±2% | GRM1555C1H181GA01# | |
| | | | | ±5% | GRM1555C1H181JA01# | |
| | | | 220pF | ±2% | GRM1555C1H221GA01# | |
| | | | | ±5% | GRM1555C1H221JA01# | |
| | | | 270pF | ±2% | GRM1555C1H271GA01# | |
| | | | | ±5% | GRM1555C1H271JA01# | |
| | | | 330pF | ±2% | GRM1555C1H331GA01# | |
| | | | | ±5% | GRM1555C1H331JA01# | |
| | | | 390pF | ±2% | GRM1555C1H391GA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.55mm | 50Vdc | C0G | 390pF | ±5% | GRM1555C1H391JA01# | |
| | | | 470pF | ±2% | GRM1555C1H471GA01# | |
| | | | | ±5% | GRM1555C1H471JA01# | |
| | | | 560pF | ±2% | GRM1555C1H561GA01# | |
| | | | | ±5% | GRM1555C1H561JA01# | |
| | | | 680pF | ±2% | GRM1555C1H681GA01# | |
| | | | | ±5% | GRM1555C1H681JA01# | |
| | | | 820pF | ±2% | GRM1555C1H821GA01# | |
| | | | | ±5% | GRM1555C1H821JA01# | |
| | | | 1000pF | ±2% | GRM1555C1H102GA01# | |
| | | | | ±5% | GRM1555C1H102JA01# | |
| | | CK | 0.10pF | ±0.05pF | GRM1554C1HR10WA01# | |
| | | | 0.20pF | ±0.05pF | GRM1554C1HR20WA01# | |
| | | | | ±0.1pF | GRM1554C1HR20BA01# | |
| | | | 0.30pF | ±0.05pF | GRM1554C1HR30WA01# | |
| | | | | ±0.1pF | GRM1554C1HR30BA01# | |
| | | | 0.40pF | ±0.05pF | GRM1554C1HR40WA01# | |
| | | | | ±0.1pF | GRM1554C1HR40BA01# | |
| | | | 0.50pF | ±0.05pF | GRM1554C1HR50WA01# | |
| | | | | ±0.1pF | GRM1554C1HR50BA01# | |
| | | | 0.60pF | ±0.05pF | GRM1554C1HR60WA01# | |
| | | | | ±0.1pF | GRM1554C1HR60BA01# | |
| | | | 0.70pF | ±0.05pF | GRM1554C1HR70WA01# | |
| | | | | ±0.1pF | GRM1554C1HR70BA01# | |
| | | | 0.80pF | ±0.05pF | GRM1554C1HR80WA01# | |
| | | | | ±0.1pF | GRM1554C1HR80BA01# | |
| | | | 0.90pF | ±0.05pF | GRM1554C1HR90WA01# | |
| | | | | ±0.1pF | GRM1554C1HR90BA01# | |
| | | | 1.0pF | ±0.05pF | GRM1554C1H1R0WA01# | |
| | | | | ±0.1pF | GRM1554C1H1R0BA01# | |
| | | | | ±0.25pF | GRM1554C1H1R0CA01# | |
| | | | 1.1pF | ±0.05pF | GRM1554C1H1R1WA01# | |
| | | | | ±0.1pF | GRM1554C1H1R1BA01# | |
| | | | | ±0.25pF | GRM1554C1H1R1CA01# | |
| | | | 1.2pF | ±0.05pF | GRM1554C1H1R2WA01# | |
| | | | | ±0.1pF | GRM1554C1H1R2BA01# | |
| | | | | ±0.25pF | GRM1554C1H1R2CA01# | |
| | | | 1.3pF | ±0.05pF | GRM1554C1H1R3WA01# | |
| | | | | ±0.1pF | GRM1554C1H1R3BA01# | |
| | | | | ±0.25pF | GRM1554C1H1R3CA01# | |
| | | | 1.4pF | ±0.05pF | GRM1554C1H1R4WA01# | |
| | | | | ±0.1pF | GRM1554C1H1R4BA01# | |
| | | | | ±0.25pF | GRM1554C1H1R4CA01# | |
| | | | 1.5pF | ±0.05pF | GRM1554C1H1R5WA01# | |
| | | | | ±0.1pF | GRM1554C1H1R5BA01# | |
| | | | | ±0.25pF | GRM1554C1H1R5CA01# | |
| | | | 1.6pF | ±0.05pF | GRM1554C1H1R6WA01# | |
| | | | | ±0.1pF | GRM1554C1H1R6BA01# | |
| | | | | ±0.25pF | GRM1554C1H1R6CA01# | |
| | | | 1.7pF | ±0.05pF | GRM1554C1H1R7WA01# | |
| | | | | ±0.1pF | GRM1554C1H1R7BA01# | |
| | | | | ±0.25pF | GRM1554C1H1R7CA01# | |
| | | | 1.8pF | ±0.05pF | GRM1554C1H1R8WA01# | |
| | | | | ±0.1pF | GRM1554C1H1R8BA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.55mm | 50Vdc | CK | 1.8pF | ±0.25pF | **GRM1554C1H1R8CA01#** |
| | | | 1.9pF | ±0.05pF | **GRM1554C1H1R9WA01#** |
| | | | | ±0.1pF | **GRM1554C1H1R9BA01#** |
| | | | | ±0.25pF | **GRM1554C1H1R9CA01#** |
| | | | 2.0pF | ±0.05pF | **GRM1554C1H2R0WA01#** |
| | | | | ±0.1pF | **GRM1554C1H2R0BA01#** |
| | | | | ±0.25pF | **GRM1554C1H2R0CA01#** |
| | | CJ | 2.1pF | ±0.05pF | **GRM1553C1H2R1WA01#** |
| | | | | ±0.1pF | **GRM1553C1H2R1BA01#** |
| | | | | ±0.25pF | **GRM1553C1H2R1CA01#** |
| | | | 2.2pF | ±0.05pF | **GRM1553C1H2R2WA01#** |
| | | | | ±0.1pF | **GRM1553C1H2R2BA01#** |
| | | | | ±0.25pF | **GRM1553C1H2R2CA01#** |
| | | | 2.3pF | ±0.05pF | **GRM1553C1H2R3WA01#** |
| | | | | ±0.1pF | **GRM1553C1H2R3BA01#** |
| | | | | ±0.25pF | **GRM1553C1H2R3CA01#** |
| | | | 2.4pF | ±0.05pF | **GRM1553C1H2R4WA01#** |
| | | | | ±0.1pF | **GRM1553C1H2R4BA01#** |
| | | | | ±0.25pF | **GRM1553C1H2R4CA01#** |
| | | | 2.5pF | ±0.05pF | **GRM1553C1H2R5WA01#** |
| | | | | ±0.1pF | **GRM1553C1H2R5BA01#** |
| | | | | ±0.25pF | **GRM1553C1H2R5CA01#** |
| | | | 2.6pF | ±0.05pF | **GRM1553C1H2R6WA01#** |
| | | | | ±0.1pF | **GRM1553C1H2R6BA01#** |
| | | | | ±0.25pF | **GRM1553C1H2R6CA01#** |
| | | | 2.7pF | ±0.05pF | **GRM1553C1H2R7WA01#** |
| | | | | ±0.1pF | **GRM1553C1H2R7BA01#** |
| | | | | ±0.25pF | **GRM1553C1H2R7CA01#** |
| | | | 2.8pF | ±0.05pF | **GRM1553C1H2R8WA01#** |
| | | | | ±0.1pF | **GRM1553C1H2R8BA01#** |
| | | | | ±0.25pF | **GRM1553C1H2R8CA01#** |
| | | | 2.9pF | ±0.05pF | **GRM1553C1H2R9WA01#** |
| | | | | ±0.1pF | **GRM1553C1H2R9BA01#** |
| | | | | ±0.25pF | **GRM1553C1H2R9CA01#** |
| | | | 3.0pF | ±0.05pF | **GRM1553C1H3R0WA01#** |
| | | | | ±0.1pF | **GRM1553C1H3R0BA01#** |
| | | | | ±0.25pF | **GRM1553C1H3R0CA01#** |
| | | | 3.1pF | ±0.05pF | **GRM1553C1H3R1WA01#** |
| | | | | ±0.1pF | **GRM1553C1H3R1BA01#** |
| | | | | ±0.25pF | **GRM1553C1H3R1CA01#** |
| | | | 3.2pF | ±0.05pF | **GRM1553C1H3R2WA01#** |
| | | | | ±0.1pF | **GRM1553C1H3R2BA01#** |
| | | | | ±0.25pF | **GRM1553C1H3R2CA01#** |
| | | | 3.3pF | ±0.05pF | **GRM1553C1H3R3WA01#** |
| | | | | ±0.1pF | **GRM1553C1H3R3BA01#** |
| | | | | ±0.25pF | **GRM1553C1H3R3CA01#** |
| | | | 3.4pF | ±0.05pF | **GRM1553C1H3R4WA01#** |
| | | | | ±0.1pF | **GRM1553C1H3R4BA01#** |
| | | | | ±0.25pF | **GRM1553C1H3R4CA01#** |
| | | | 3.5pF | ±0.05pF | **GRM1553C1H3R5WA01#** |
| | | | | ±0.1pF | **GRM1553C1H3R5BA01#** |
| | | | | ±0.25pF | **GRM1553C1H3R5CA01#** |
| | | | 3.6pF | ±0.05pF | **GRM1553C1H3R6WA01#** |
| | | | | ±0.1pF | **GRM1553C1H3R6BA01#** |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.55mm | 50Vdc | CJ | 3.6pF | ±0.25pF | **GRM1553C1H3R6CA01#** |
| | | | 3.7pF | ±0.05pF | **GRM1553C1H3R7WA01#** |
| | | | | ±0.1pF | **GRM1553C1H3R7BA01#** |
| | | | | ±0.25pF | **GRM1553C1H3R7CA01#** |
| | | | 3.8pF | ±0.05pF | **GRM1553C1H3R8WA01#** |
| | | | | ±0.1pF | **GRM1553C1H3R8BA01#** |
| | | | | ±0.25pF | **GRM1553C1H3R8CA01#** |
| | | | 3.9pF | ±0.05pF | **GRM1553C1H3R9WA01#** |
| | | | | ±0.1pF | **GRM1553C1H3R9BA01#** |
| | | | | ±0.25pF | **GRM1553C1H3R9CA01#** |
| | | CH | 4.0pF | ±0.05pF | **GRM1552C1H4R0WA01#** |
| | | | | ±0.1pF | **GRM1552C1H4R0BA01#** |
| | | | | ±0.25pF | **GRM1552C1H4R0CA01#** |
| | | | 4.1pF | ±0.05pF | **GRM1552C1H4R1WA01#** |
| | | | | ±0.1pF | **GRM1552C1H4R1BA01#** |
| | | | | ±0.25pF | **GRM1552C1H4R1CA01#** |
| | | | 4.2pF | ±0.05pF | **GRM1552C1H4R2WA01#** |
| | | | | ±0.1pF | **GRM1552C1H4R2BA01#** |
| | | | | ±0.25pF | **GRM1552C1H4R2CA01#** |
| | | | 4.3pF | ±0.05pF | **GRM1552C1H4R3WA01#** |
| | | | | ±0.1pF | **GRM1552C1H4R3BA01#** |
| | | | | ±0.25pF | **GRM1552C1H4R3CA01#** |
| | | | 4.4pF | ±0.05pF | **GRM1552C1H4R4WA01#** |
| | | | | ±0.1pF | **GRM1552C1H4R4BA01#** |
| | | | | ±0.25pF | **GRM1552C1H4R4CA01#** |
| | | | 4.5pF | ±0.05pF | **GRM1552C1H4R5WA01#** |
| | | | | ±0.1pF | **GRM1552C1H4R5BA01#** |
| | | | | ±0.25pF | **GRM1552C1H4R5CA01#** |
| | | | 4.6pF | ±0.05pF | **GRM1552C1H4R6WA01#** |
| | | | | ±0.1pF | **GRM1552C1H4R6BA01#** |
| | | | | ±0.25pF | **GRM1552C1H4R6CA01#** |
| | | | 4.7pF | ±0.05pF | **GRM1552C1H4R7WA01#** |
| | | | | ±0.1pF | **GRM1552C1H4R7BA01#** |
| | | | | ±0.25pF | **GRM1552C1H4R7CA01#** |
| | | | 4.8pF | ±0.05pF | **GRM1552C1H4R8WA01#** |
| | | | | ±0.1pF | **GRM1552C1H4R8BA01#** |
| | | | | ±0.25pF | **GRM1552C1H4R8CA01#** |
| | | | 4.9pF | ±0.05pF | **GRM1552C1H4R9WA01#** |
| | | | | ±0.1pF | **GRM1552C1H4R9BA01#** |
| | | | | ±0.25pF | **GRM1552C1H4R9CA01#** |
| | | | 5.0pF | ±0.05pF | **GRM1552C1H5R0WA01#** |
| | | | | ±0.1pF | **GRM1552C1H5R0BA01#** |
| | | | | ±0.25pF | **GRM1552C1H5R0CA01#** |
| | | | 5.1pF | ±0.05pF | **GRM1552C1H5R1WA01#** |
| | | | | ±0.1pF | **GRM1552C1H5R1BA01#** |
| | | | | ±0.25pF | **GRM1552C1H5R1CA01#** |
| | | | | ±0.5pF | **GRM1552C1H5R1DA01#** |
| | | | 5.2pF | ±0.05pF | **GRM1552C1H5R2WA01#** |
| | | | | ±0.1pF | **GRM1552C1H5R2BA01#** |
| | | | | ±0.25pF | **GRM1552C1H5R2CA01#** |
| | | | | ±0.5pF | **GRM1552C1H5R2DA01#** |
| | | | 5.3pF | ±0.05pF | **GRM1552C1H5R3WA01#** |
| | | | | ±0.1pF | **GRM1552C1H5R3BA01#** |
| | | | | ±0.25pF | **GRM1552C1H5R3CA01#** |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.55mm | 50Vdc | CH | 5.3pF | ±0.5pF | GRM1552C1H5R3DA01# |
| | | | 5.4pF | ±0.05pF | GRM1552C1H5R4WA01# |
| | | | | ±0.1pF | GRM1552C1H5R4BA01# |
| | | | | ±0.25pF | GRM1552C1H5R4CA01# |
| | | | | ±0.5pF | GRM1552C1H5R4DA01# |
| | | | 5.5pF | ±0.05pF | GRM1552C1H5R5WA01# |
| | | | | ±0.1pF | GRM1552C1H5R5BA01# |
| | | | | ±0.25pF | GRM1552C1H5R5CA01# |
| | | | | ±0.5pF | GRM1552C1H5R5DA01# |
| | | | 5.6pF | ±0.05pF | GRM1552C1H5R6WA01# |
| | | | | ±0.1pF | GRM1552C1H5R6BA01# |
| | | | | ±0.25pF | GRM1552C1H5R6CA01# |
| | | | | ±0.5pF | GRM1552C1H5R6DA01# |
| | | | 5.7pF | ±0.05pF | GRM1552C1H5R7WA01# |
| | | | | ±0.1pF | GRM1552C1H5R7BA01# |
| | | | | ±0.25pF | GRM1552C1H5R7CA01# |
| | | | | ±0.5pF | GRM1552C1H5R7DA01# |
| | | | 5.8pF | ±0.05pF | GRM1552C1H5R8WA01# |
| | | | | ±0.1pF | GRM1552C1H5R8BA01# |
| | | | | ±0.25pF | GRM1552C1H5R8CA01# |
| | | | | ±0.5pF | GRM1552C1H5R8DA01# |
| | | | 5.9pF | ±0.05pF | GRM1552C1H5R9WA01# |
| | | | | ±0.1pF | GRM1552C1H5R9BA01# |
| | | | | ±0.25pF | GRM1552C1H5R9CA01# |
| | | | | ±0.5pF | GRM1552C1H5R9DA01# |
| | | | 6.0pF | ±0.05pF | GRM1552C1H6R0WA01# |
| | | | | ±0.1pF | GRM1552C1H6R0BA01# |
| | | | | ±0.25pF | GRM1552C1H6R0CA01# |
| | | | | ±0.5pF | GRM1552C1H6R0DA01# |
| | | | 6.1pF | ±0.05pF | GRM1552C1H6R1WA01# |
| | | | | ±0.1pF | GRM1552C1H6R1BA01# |
| | | | | ±0.25pF | GRM1552C1H6R1CA01# |
| | | | | ±0.5pF | GRM1552C1H6R1DA01# |
| | | | 6.2pF | ±0.05pF | GRM1552C1H6R2WA01# |
| | | | | ±0.1pF | GRM1552C1H6R2BA01# |
| | | | | ±0.25pF | GRM1552C1H6R2CA01# |
| | | | | ±0.5pF | GRM1552C1H6R2DA01# |
| | | | 6.3pF | ±0.05pF | GRM1552C1H6R3WA01# |
| | | | | ±0.1pF | GRM1552C1H6R3BA01# |
| | | | | ±0.25pF | GRM1552C1H6R3CA01# |
| | | | | ±0.5pF | GRM1552C1H6R3DA01# |
| | | | 6.4pF | ±0.05pF | GRM1552C1H6R4WA01# |
| | | | | ±0.1pF | GRM1552C1H6R4BA01# |
| | | | | ±0.25pF | GRM1552C1H6R4CA01# |
| | | | | ±0.5pF | GRM1552C1H6R4DA01# |
| | | | 6.5pF | ±0.05pF | GRM1552C1H6R5WA01# |
| | | | | ±0.1pF | GRM1552C1H6R5BA01# |
| | | | | ±0.25pF | GRM1552C1H6R5CA01# |
| | | | | ±0.5pF | GRM1552C1H6R5DA01# |
| | | | 6.6pF | ±0.05pF | GRM1552C1H6R6WA01# |
| | | | | ±0.1pF | GRM1552C1H6R6BA01# |
| | | | | ±0.25pF | GRM1552C1H6R6CA01# |
| | | | | ±0.5pF | GRM1552C1H6R6DA01# |
| | | | 6.7pF | ±0.05pF | GRM1552C1H6R7WA01# |
| | | | | ±0.1pF | GRM1552C1H6R7BA01# |
| | | | | ±0.25pF | GRM1552C1H6R7CA01# |
| | | | | ±0.5pF | GRM1552C1H6R7DA01# |
| | | | 6.8pF | ±0.05pF | GRM1552C1H6R8WA01# |
| | | | | ±0.1pF | GRM1552C1H6R8BA01# |
| | | | | ±0.25pF | GRM1552C1H6R8CA01# |
| | | | | ±0.5pF | GRM1552C1H6R8DA01# |
| | | | 6.9pF | ±0.05pF | GRM1552C1H6R9WA01# |
| | | | | ±0.1pF | GRM1552C1H6R9BA01# |
| | | | | ±0.25pF | GRM1552C1H6R9CA01# |
| | | | | ±0.5pF | GRM1552C1H6R9DA01# |
| | | | 7.0pF | ±0.05pF | GRM1552C1H7R0WA01# |
| | | | | ±0.1pF | GRM1552C1H7R0BA01# |
| | | | | ±0.25pF | GRM1552C1H7R0CA01# |
| | | | | ±0.5pF | GRM1552C1H7R0DA01# |
| | | | 7.1pF | ±0.05pF | GRM1552C1H7R1WA01# |
| | | | | ±0.1pF | GRM1552C1H7R1BA01# |
| | | | | ±0.25pF | GRM1552C1H7R1CA01# |
| | | | | ±0.5pF | GRM1552C1H7R1DA01# |
| | | | 7.2pF | ±0.05pF | GRM1552C1H7R2WA01# |
| | | | | ±0.1pF | GRM1552C1H7R2BA01# |
| | | | | ±0.25pF | GRM1552C1H7R2CA01# |
| | | | | ±0.5pF | GRM1552C1H7R2DA01# |
| | | | 7.3pF | ±0.05pF | GRM1552C1H7R3WA01# |
| | | | | ±0.1pF | GRM1552C1H7R3BA01# |
| | | | | ±0.25pF | GRM1552C1H7R3CA01# |
| | | | | ±0.5pF | GRM1552C1H7R3DA01# |
| | | | 7.4pF | ±0.05pF | GRM1552C1H7R4WA01# |
| | | | | ±0.1pF | GRM1552C1H7R4BA01# |
| | | | | ±0.25pF | GRM1552C1H7R4CA01# |
| | | | | ±0.5pF | GRM1552C1H7R4DA01# |
| | | | 7.5pF | ±0.05pF | GRM1552C1H7R5WA01# |
| | | | | ±0.1pF | GRM1552C1H7R5BA01# |
| | | | | ±0.25pF | GRM1552C1H7R5CA01# |
| | | | | ±0.5pF | GRM1552C1H7R5DA01# |
| | | | 7.6pF | ±0.05pF | GRM1552C1H7R6WA01# |
| | | | | ±0.1pF | GRM1552C1H7R6BA01# |
| | | | | ±0.25pF | GRM1552C1H7R6CA01# |
| | | | | ±0.5pF | GRM1552C1H7R6DA01# |
| | | | 7.7pF | ±0.05pF | GRM1552C1H7R7WA01# |
| | | | | ±0.1pF | GRM1552C1H7R7BA01# |
| | | | | ±0.25pF | GRM1552C1H7R7CA01# |
| | | | | ±0.5pF | GRM1552C1H7R7DA01# |
| | | | 7.8pF | ±0.05pF | GRM1552C1H7R8WA01# |
| | | | | ±0.1pF | GRM1552C1H7R8BA01# |
| | | | | ±0.25pF | GRM1552C1H7R8CA01# |
| | | | | ±0.5pF | GRM1552C1H7R8DA01# |
| | | | 7.9pF | ±0.05pF | GRM1552C1H7R9WA01# |
| | | | | ±0.1pF | GRM1552C1H7R9BA01# |
| | | | | ±0.25pF | GRM1552C1H7R9CA01# |
| | | | | ±0.5pF | GRM1552C1H7R9DA01# |
| | | | 8.0pF | ±0.05pF | GRM1552C1H8R0WA01# |
| | | | | ±0.1pF | GRM1552C1H8R0BA01# |
| | | | | ±0.25pF | GRM1552C1H8R0CA01# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.0×0.5mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.55mm | 50Vdc | CH | 8.0pF | ±0.5pF | **GRM1552C1H8R0DA01#** | |
| | | | 8.1pF | ±0.05pF | **GRM1552C1H8R1WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H8R1BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H8R1CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H8R1DA01#** | |
| | | | 8.2pF | ±0.05pF | **GRM1552C1H8R2WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H8R2BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H8R2CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H8R2DA01#** | |
| | | | 8.3pF | ±0.05pF | **GRM1552C1H8R3WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H8R3BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H8R3CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H8R3DA01#** | |
| | | | 8.4pF | ±0.05pF | **GRM1552C1H8R4WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H8R4BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H8R4CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H8R4DA01#** | |
| | | | 8.5pF | ±0.05pF | **GRM1552C1H8R5WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H8R5BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H8R5CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H8R5DA01#** | |
| | | | 8.6pF | ±0.05pF | **GRM1552C1H8R6WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H8R6BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H8R6CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H8R6DA01#** | |
| | | | 8.7pF | ±0.05pF | **GRM1552C1H8R7WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H8R7BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H8R7CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H8R7DA01#** | |
| | | | 8.8pF | ±0.05pF | **GRM1552C1H8R8WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H8R8BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H8R8CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H8R8DA01#** | |
| | | | 8.9pF | ±0.05pF | **GRM1552C1H8R9WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H8R9BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H8R9CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H8R9DA01#** | |
| | | | 9.0pF | ±0.05pF | **GRM1552C1H9R0WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H9R0BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H9R0CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H9R0DA01#** | |
| | | | 9.1pF | ±0.05pF | **GRM1552C1H9R1WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H9R1BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H9R1CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H9R1DA01#** | |
| | | | 9.2pF | ±0.05pF | **GRM1552C1H9R2WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H9R2BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H9R2CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H9R2DA01#** | |
| | | | 9.3pF | ±0.05pF | **GRM1552C1H9R3WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H9R3BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H9R3CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H9R3DA01#** | |
| | | | 9.4pF | ±0.05pF | **GRM1552C1H9R4WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H9R4BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H9R4CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H9R4DA01#** | |
| | | | 9.5pF | ±0.05pF | **GRM1552C1H9R5WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H9R5BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H9R5CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H9R5DA01#** | |
| | | | 9.6pF | ±0.05pF | **GRM1552C1H9R6WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H9R6BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H9R6CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H9R6DA01#** | |
| | | | 9.7pF | ±0.05pF | **GRM1552C1H9R7WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H9R7BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H9R7CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H9R7DA01#** | |
| | | | 9.8pF | ±0.05pF | **GRM1552C1H9R8WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H9R8BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H9R8CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H9R8DA01#** | |
| | | | 9.9pF | ±0.05pF | **GRM1552C1H9R9WA01#** | |
| | | | | ±0.1pF | **GRM1552C1H9R9BA01#** | |
| | | | | ±0.25pF | **GRM1552C1H9R9CA01#** | |
| | | | | ±0.5pF | **GRM1552C1H9R9DA01#** | |
| | | | 10pF | ±2% | **GRM1552C1H100GA01#** | |
| | | | | ±5% | **GRM1552C1H100JA01#** | |
| | | | 12pF | ±2% | **GRM1552C1H120GA01#** | |
| | | | | ±5% | **GRM1552C1H120JA01#** | |
| | | | 15pF | ±2% | **GRM1552C1H150GA01#** | |
| | | | | ±5% | **GRM1552C1H150JA01#** | |
| | | | 18pF | ±2% | **GRM1552C1H180GA01#** | |
| | | | | ±5% | **GRM1552C1H180JA01#** | |
| | | | 22pF | ±2% | **GRM1552C1H220GA01#** | |
| | | | | ±5% | **GRM1552C1H220JA01#** | |
| | | | 27pF | ±2% | **GRM1552C1H270GA01#** | |
| | | | | ±5% | **GRM1552C1H270JA01#** | |
| | | | 33pF | ±2% | **GRM1552C1H330GA01#** | |
| | | | | ±5% | **GRM1552C1H330JA01#** | |
| | | | 39pF | ±2% | **GRM1552C1H390GA01#** | |
| | | | | ±5% | **GRM1552C1H390JA01#** | |
| | | | 47pF | ±2% | **GRM1552C1H470GA01#** | |
| | | | | ±5% | **GRM1552C1H470JA01#** | |
| | | | 56pF | ±2% | **GRM1552C1H560GA01#** | |
| | | | | ±5% | **GRM1552C1H560JA01#** | |
| | | | 68pF | ±2% | **GRM1552C1H680GA01#** | |
| | | | | ±5% | **GRM1552C1H680JA01#** | |
| | | | 82pF | ±2% | **GRM1552C1H820GA01#** | |
| | | | | ±5% | **GRM1552C1H820JA01#** | |
| | | | 100pF | ±2% | **GRM1552C1H101GA01#** | |
| | | | | ±5% | **GRM1552C1H101JA01#** | |
| | | | 120pF | ±2% | **GRM1552C1H121GA01#** | |
| | | | | ±5% | **GRM1552C1H121JA01#** | |
| | | | 150pF | ±2% | **GRM1552C1H151GA01#** | |
| | | | | ±5% | **GRM1552C1H151JA01#** | |
| | | | 180pF | ±2% | **GRM1552C1H181GA01#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

## (→ 1.0×0.5mm)

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.55mm | 50Vdc | CH | 180pF | ±5% | GRM1552C1H181JA01# |
| | | | 220pF | ±2% | GRM1552C1H221GA01# |
| | | | | ±5% | GRM1552C1H221JA01# |
| | | | 270pF | ±2% | GRM1552C1H271GA01# |
| | | | | ±5% | GRM1552C1H271JA01# |
| | | | 330pF | ±2% | GRM1552C1H331GA01# |
| | | | | ±5% | GRM1552C1H331JA01# |
| | | | 390pF | ±2% | GRM1552C1H391GA01# |
| | | | | ±5% | GRM1552C1H391JA01# |
| | | | 470pF | ±2% | GRM1552C1H471GA01# |
| | | | | ±5% | GRM1552C1H471JA01# |
| | | | 560pF | ±2% | GRM1552C1H561GA01# |
| | | | | ±5% | GRM1552C1H561JA01# |
| | | | 680pF | ±2% | GRM1552C1H681GA01# |
| | | | | ±5% | GRM1552C1H681JA01# |
| | | | 820pF | ±2% | GRM1552C1H821GA01# |
| | | | | ±5% | GRM1552C1H821JA01# |
| | | | 1000pF | ±2% | GRM1552C1H102GA01# |
| | | | | ±5% | GRM1552C1H102JA01# |
| | 10Vdc | SL | 1200pF | ±5% | GRM1551X1A122JA01# |
| | | | 1500pF | ±5% | GRM1551X1A152JA01# |
| | | | 1800pF | ±5% | GRM1551X1A182JA01# |
| | | | 2200pF | ±5% | GRM1551X1A222JA01# |
| | | | 2700pF | ±5% | GRM1551X1A272JA01# |
| | | | 3300pF | ±5% | GRM1551X1A332JA01# |
| | | | 3900pF | ±5% | GRM1551X1A392JA01# |
| | | | 4700pF | ±5% | GRM1551X1A472JA01# |
| | | U2J | 1200pF | ±5% | GRM1557U1A122JA01# |
| | | | 1500pF | ±5% | GRM1557U1A152JA01# |
| | | | 1800pF | ±5% | GRM1557U1A182JA01# |
| | | | 2200pF | ±5% | GRM1557U1A222JA01# |
| | | | 2700pF | ±5% | GRM1557U1A272JA01# |
| | | | 3300pF | ±5% | GRM1557U1A332JA01# |
| | | | 3900pF | ±5% | GRM1557U1A392JA01# |
| | | | 4700pF | ±5% | GRM1557U1A472JA01# |
| | | UJ | 1200pF | ±5% | GRM1553U1A122JA01# |
| | | | 1500pF | ±5% | GRM1553U1A152JA01# |
| | | | 1800pF | ±5% | GRM1553U1A182JA01# |
| | | | 2200pF | ±5% | GRM1553U1A222JA01# |
| | | | 2700pF | ±5% | GRM1553U1A272JA01# |
| | | | 3300pF | ±5% | GRM1553U1A332JA01# |
| | | | 3900pF | ±5% | GRM1553U1A392JA01# |
| | | | 4700pF | ±5% | GRM1553U1A472JA01# |

## 1.6×0.8mm

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.5mm | 50Vdc | SL | 2200pF | ±5% | GRM1851X1H222JA44# |
| | | | 2700pF | ±5% | GRM1851X1H272JA44# |
| | | | 3300pF | ±5% | GRM1851X1H332JA44# |
| | | | 3900pF | ±5% | GRM1851X1H392JA44# |
| | | | 4700pF | ±5% | GRM1851X1H472JA44# |
| | | U2J | 2200pF | ±5% | GRM1857U1H222JA44# |
| | | | 2700pF | ±5% | GRM1857U1H272JA44# |
| | | | 3300pF | ±5% | GRM1857U1H332JA44# |
| | | | 3900pF | ±5% | GRM1857U1H392JA44# |
| | | | 4700pF | ±5% | GRM1857U1H472JA44# |
| | | UJ | 2200pF | ±5% | GRM1853U1H222JA44# |
| | | | 2700pF | ±5% | GRM1853U1H272JA44# |
| | | | 3300pF | ±5% | GRM1853U1H332JA44# |
| | | | 3900pF | ±5% | GRM1853U1H392JA44# |
| | | | 4700pF | ±5% | GRM1853U1H472JA44# |
| | 10Vdc | SL | 5600pF | ±5% | GRM1851X1A562JA44# |
| | | | 6800pF | ±5% | GRM1851X1A682JA44# |
| | | | 8200pF | ±5% | GRM1851X1A822JA44# |
| | | | 10000pF | ±5% | GRM1851X1A103JA44# |
| | | U2J | 5600pF | ±5% | GRM1857U1A562JA44# |
| | | | 6800pF | ±5% | GRM1857U1A682JA44# |
| | | | 8200pF | ±5% | GRM1857U1A822JA44# |
| | | | 10000pF | ±5% | GRM1857U1A103JA44# |
| | | UJ | 5600pF | ±5% | GRM1853U1A562JA44# |
| | | | 6800pF | ±5% | GRM1853U1A682JA44# |
| | | | 8200pF | ±5% | GRM1853U1A822JA44# |
| | | | 10000pF | ±5% | GRM1853U1A103JA44# |
| 0.9mm | 100Vdc | C0G | 0.50pF | ±0.05pF | GRM1885C2AR50WA01# |
| | | | | ±0.1pF | GRM1885C2AR50BA01# |
| | | | 0.60pF | ±0.05pF | GRM1885C2AR60WA01# |
| | | | | ±0.1pF | GRM1885C2AR60BA01# |
| | | | 0.70pF | ±0.05pF | GRM1885C2AR70WA01# |
| | | | | ±0.1pF | GRM1885C2AR70BA01# |
| | | | 0.80pF | ±0.05pF | GRM1885C2AR80WA01# |
| | | | | ±0.1pF | GRM1885C2AR80BA01# |
| | | | 0.90pF | ±0.05pF | GRM1885C2AR90WA01# |
| | | | | ±0.1pF | GRM1885C2AR90BA01# |
| | | | 1.0pF | ±0.05pF | GRM1885C2A1R0WA01# |
| | | | | ±0.1pF | GRM1885C2A1R0BA01# |
| | | | | ±0.25pF | GRM1885C2A1R0CA01# |
| | | | 1.1pF | ±0.05pF | GRM1885C2A1R1WA01# |
| | | | | ±0.1pF | GRM1885C2A1R1BA01# |
| | | | | ±0.25pF | GRM1885C2A1R1CA01# |
| | | | 1.2pF | ±0.05pF | GRM1885C2A1R2WA01# |
| | | | | ±0.1pF | GRM1885C2A1R2BA01# |
| | | | | ±0.25pF | GRM1885C2A1R2CA01# |
| | | | 1.3pF | ±0.05pF | GRM1885C2A1R3WA01# |
| | | | | ±0.1pF | GRM1885C2A1R3BA01# |
| | | | | ±0.25pF | GRM1885C2A1R3CA01# |
| | | | 1.4pF | ±0.05pF | GRM1885C2A1R4WA01# |
| | | | | ±0.1pF | GRM1885C2A1R4BA01# |
| | | | | ±0.25pF | GRM1885C2A1R4CA01# |
| | | | 1.5pF | ±0.05pF | GRM1885C2A1R5WA01# |
| | | | | ±0.1pF | GRM1885C2A1R5BA01# |
| | | | | ±0.25pF | GRM1885C2A1R5CA01# |
| | | | 1.6pF | ±0.05pF | GRM1885C2A1R6WA01# |
| | | | | ±0.1pF | GRM1885C2A1R6BA01# |
| | | | | ±0.25pF | GRM1885C2A1R6CA01# |
| | | | 1.7pF | ±0.05pF | GRM1885C2A1R7WA01# |
| | | | | ±0.1pF | GRM1885C2A1R7BA01# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.9mm | 100Vdc | C0G | 1.7pF | ±0.25pF | GRM1885C2A1R7CA01# |
| | | | 1.8pF | ±0.05pF | GRM1885C2A1R8WA01# |
| | | | | ±0.1pF | GRM1885C2A1R8BA01# |
| | | | | ±0.25pF | GRM1885C2A1R8CA01# |
| | | | 1.9pF | ±0.05pF | GRM1885C2A1R9WA01# |
| | | | | ±0.1pF | GRM1885C2A1R9BA01# |
| | | | | ±0.25pF | GRM1885C2A1R9CA01# |
| | | | 2.0pF | ±0.05pF | GRM1885C2A2R0WA01# |
| | | | | ±0.1pF | GRM1885C2A2R0BA01# |
| | | | | ±0.25pF | GRM1885C2A2R0CA01# |
| | | | 2.1pF | ±0.05pF | GRM1885C2A2R1WA01# |
| | | | | ±0.1pF | GRM1885C2A2R1BA01# |
| | | | | ±0.25pF | GRM1885C2A2R1CA01# |
| | | | 2.2pF | ±0.05pF | GRM1885C2A2R2WA01# |
| | | | | ±0.1pF | GRM1885C2A2R2BA01# |
| | | | | ±0.25pF | GRM1885C2A2R2CA01# |
| | | | 2.3pF | ±0.05pF | GRM1885C2A2R3WA01# |
| | | | | ±0.1pF | GRM1885C2A2R3BA01# |
| | | | | ±0.25pF | GRM1885C2A2R3CA01# |
| | | | 2.4pF | ±0.05pF | GRM1885C2A2R4WA01# |
| | | | | ±0.1pF | GRM1885C2A2R4BA01# |
| | | | | ±0.25pF | GRM1885C2A2R4CA01# |
| | | | 2.5pF | ±0.05pF | GRM1885C2A2R5WA01# |
| | | | | ±0.1pF | GRM1885C2A2R5BA01# |
| | | | | ±0.25pF | GRM1885C2A2R5CA01# |
| | | | 2.6pF | ±0.05pF | GRM1885C2A2R6WA01# |
| | | | | ±0.1pF | GRM1885C2A2R6BA01# |
| | | | | ±0.25pF | GRM1885C2A2R6CA01# |
| | | | 2.7pF | ±0.05pF | GRM1885C2A2R7WA01# |
| | | | | ±0.1pF | GRM1885C2A2R7BA01# |
| | | | | ±0.25pF | GRM1885C2A2R7CA01# |
| | | | 2.8pF | ±0.05pF | GRM1885C2A2R8WA01# |
| | | | | ±0.1pF | GRM1885C2A2R8BA01# |
| | | | | ±0.25pF | GRM1885C2A2R8CA01# |
| | | | 2.9pF | ±0.05pF | GRM1885C2A2R9WA01# |
| | | | | ±0.1pF | GRM1885C2A2R9BA01# |
| | | | | ±0.25pF | GRM1885C2A2R9CA01# |
| | | | 3.0pF | ±0.05pF | GRM1885C2A3R0WA01# |
| | | | | ±0.1pF | GRM1885C2A3R0BA01# |
| | | | | ±0.25pF | GRM1885C2A3R0CA01# |
| | | | 3.1pF | ±0.05pF | GRM1885C2A3R1WA01# |
| | | | | ±0.1pF | GRM1885C2A3R1BA01# |
| | | | | ±0.25pF | GRM1885C2A3R1CA01# |
| | | | 3.2pF | ±0.05pF | GRM1885C2A3R2WA01# |
| | | | | ±0.1pF | GRM1885C2A3R2BA01# |
| | | | | ±0.25pF | GRM1885C2A3R2CA01# |
| | | | 3.3pF | ±0.05pF | GRM1885C2A3R3WA01# |
| | | | | ±0.1pF | GRM1885C2A3R3BA01# |
| | | | | ±0.25pF | GRM1885C2A3R3CA01# |
| | | | 3.4pF | ±0.05pF | GRM1885C2A3R4WA01# |
| | | | | ±0.1pF | GRM1885C2A3R4BA01# |
| | | | | ±0.25pF | GRM1885C2A3R4CA01# |
| | | | 3.5pF | ±0.05pF | GRM1885C2A3R5WA01# |
| | | | | ±0.1pF | GRM1885C2A3R5BA01# |
| 0.9mm | 100Vdc | C0G | 3.5pF | ±0.25pF | GRM1885C2A3R5CA01# |
| | | | 3.6pF | ±0.05pF | GRM1885C2A3R6WA01# |
| | | | | ±0.1pF | GRM1885C2A3R6BA01# |
| | | | | ±0.25pF | GRM1885C2A3R6CA01# |
| | | | 3.7pF | ±0.05pF | GRM1885C2A3R7WA01# |
| | | | | ±0.1pF | GRM1885C2A3R7BA01# |
| | | | | ±0.25pF | GRM1885C2A3R7CA01# |
| | | | 3.8pF | ±0.05pF | GRM1885C2A3R8WA01# |
| | | | | ±0.1pF | GRM1885C2A3R8BA01# |
| | | | | ±0.25pF | GRM1885C2A3R8CA01# |
| | | | 3.9pF | ±0.05pF | GRM1885C2A3R9WA01# |
| | | | | ±0.1pF | GRM1885C2A3R9BA01# |
| | | | | ±0.25pF | GRM1885C2A3R9CA01# |
| | | | 4.0pF | ±0.05pF | GRM1885C2A4R0WA01# |
| | | | | ±0.1pF | GRM1885C2A4R0BA01# |
| | | | | ±0.25pF | GRM1885C2A4R0CA01# |
| | | | 4.1pF | ±0.05pF | GRM1885C2A4R1WA01# |
| | | | | ±0.1pF | GRM1885C2A4R1BA01# |
| | | | | ±0.25pF | GRM1885C2A4R1CA01# |
| | | | 4.2pF | ±0.05pF | GRM1885C2A4R2WA01# |
| | | | | ±0.1pF | GRM1885C2A4R2BA01# |
| | | | | ±0.25pF | GRM1885C2A4R2CA01# |
| | | | 4.3pF | ±0.05pF | GRM1885C2A4R3WA01# |
| | | | | ±0.1pF | GRM1885C2A4R3BA01# |
| | | | | ±0.25pF | GRM1885C2A4R3CA01# |
| | | | 4.4pF | ±0.05pF | GRM1885C2A4R4WA01# |
| | | | | ±0.1pF | GRM1885C2A4R4BA01# |
| | | | | ±0.25pF | GRM1885C2A4R4CA01# |
| | | | 4.5pF | ±0.05pF | GRM1885C2A4R5WA01# |
| | | | | ±0.1pF | GRM1885C2A4R5BA01# |
| | | | | ±0.25pF | GRM1885C2A4R5CA01# |
| | | | 4.6pF | ±0.05pF | GRM1885C2A4R6WA01# |
| | | | | ±0.1pF | GRM1885C2A4R6BA01# |
| | | | | ±0.25pF | GRM1885C2A4R6CA01# |
| | | | 4.7pF | ±0.05pF | GRM1885C2A4R7WA01# |
| | | | | ±0.1pF | GRM1885C2A4R7BA01# |
| | | | | ±0.25pF | GRM1885C2A4R7CA01# |
| | | | 4.8pF | ±0.05pF | GRM1885C2A4R8WA01# |
| | | | | ±0.1pF | GRM1885C2A4R8BA01# |
| | | | | ±0.25pF | GRM1885C2A4R8CA01# |
| | | | 4.9pF | ±0.05pF | GRM1885C2A4R9WA01# |
| | | | | ±0.1pF | GRM1885C2A4R9BA01# |
| | | | | ±0.25pF | GRM1885C2A4R9CA01# |
| | | | 5.0pF | ±0.05pF | GRM1885C2A5R0WA01# |
| | | | | ±0.1pF | GRM1885C2A5R0BA01# |
| | | | | ±0.25pF | GRM1885C2A5R0CA01# |
| | | | 5.1pF | ±0.05pF | GRM1885C2A5R1WA01# |
| | | | | ±0.1pF | GRM1885C2A5R1BA01# |
| | | | | ±0.25pF | GRM1885C2A5R1CA01# |
| | | | | ±0.5pF | GRM1885C2A5R1DA01# |
| | | | 5.2pF | ±0.05pF | GRM1885C2A5R2WA01# |
| | | | | ±0.1pF | GRM1885C2A5R2BA01# |
| | | | | ±0.25pF | GRM1885C2A5R2CA01# |
| | | | | ±0.5pF | GRM1885C2A5R2DA01# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 100Vdc | C0G | 5.3pF | ±0.05pF | **GRM1885C2A5R3WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A5R3BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A5R3CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A5R3DA01#** | |
| | | | 5.4pF | ±0.05pF | **GRM1885C2A5R4WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A5R4BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A5R4CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A5R4DA01#** | |
| | | | 5.5pF | ±0.05pF | **GRM1885C2A5R5WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A5R5BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A5R5CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A5R5DA01#** | |
| | | | 5.6pF | ±0.05pF | **GRM1885C2A5R6WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A5R6BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A5R6CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A5R6DA01#** | |
| | | | 5.7pF | ±0.05pF | **GRM1885C2A5R7WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A5R7BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A5R7CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A5R7DA01#** | |
| | | | 5.8pF | ±0.05pF | **GRM1885C2A5R8WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A5R8BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A5R8CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A5R8DA01#** | |
| | | | 5.9pF | ±0.05pF | **GRM1885C2A5R9WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A5R9BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A5R9CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A5R9DA01#** | |
| | | | 6.0pF | ±0.05pF | **GRM1885C2A6R0WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A6R0BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A6R0CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A6R0DA01#** | |
| | | | 6.1pF | ±0.05pF | **GRM1885C2A6R1WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A6R1BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A6R1CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A6R1DA01#** | |
| | | | 6.2pF | ±0.05pF | **GRM1885C2A6R2WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A6R2BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A6R2CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A6R2DA01#** | |
| | | | 6.3pF | ±0.05pF | **GRM1885C2A6R3WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A6R3BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A6R3CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A6R3DA01#** | |
| | | | 6.4pF | ±0.05pF | **GRM1885C2A6R4WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A6R4BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A6R4CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A6R4DA01#** | |
| | | | 6.5pF | ±0.05pF | **GRM1885C2A6R5WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A6R5BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A6R5CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A6R5DA01#** | |
| | | | 6.6pF | ±0.05pF | **GRM1885C2A6R6WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A6R6BA01#** | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 100Vdc | C0G | 6.6pF | ±0.25pF | **GRM1885C2A6R6CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A6R6DA01#** | |
| | | | 6.7pF | ±0.05pF | **GRM1885C2A6R7WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A6R7BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A6R7CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A6R7DA01#** | |
| | | | 6.8pF | ±0.05pF | **GRM1885C2A6R8WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A6R8BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A6R8CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A6R8DA01#** | |
| | | | 6.9pF | ±0.05pF | **GRM1885C2A6R9WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A6R9BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A6R9CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A6R9DA01#** | |
| | | | 7.0pF | ±0.05pF | **GRM1885C2A7R0WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A7R0BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A7R0CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A7R0DA01#** | |
| | | | 7.1pF | ±0.05pF | **GRM1885C2A7R1WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A7R1BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A7R1CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A7R1DA01#** | |
| | | | 7.2pF | ±0.05pF | **GRM1885C2A7R2WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A7R2BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A7R2CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A7R2DA01#** | |
| | | | 7.3pF | ±0.05pF | **GRM1885C2A7R3WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A7R3BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A7R3CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A7R3DA01#** | |
| | | | 7.4pF | ±0.05pF | **GRM1885C2A7R4WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A7R4BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A7R4CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A7R4DA01#** | |
| | | | 7.5pF | ±0.05pF | **GRM1885C2A7R5WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A7R5BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A7R5CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A7R5DA01#** | |
| | | | 7.6pF | ±0.05pF | **GRM1885C2A7R6WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A7R6BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A7R6CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A7R6DA01#** | |
| | | | 7.7pF | ±0.05pF | **GRM1885C2A7R7WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A7R7BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A7R7CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A7R7DA01#** | |
| | | | 7.8pF | ±0.05pF | **GRM1885C2A7R8WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A7R8BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A7R8CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A7R8DA01#** | |
| | | | 7.9pF | ±0.05pF | **GRM1885C2A7R9WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A7R9BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A7R9CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A7R9DA01#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 100Vdc | C0G | 8.0pF | ±0.05pF | **GRM1885C2A8R0WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A8R0BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A8R0CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A8R0DA01#** | |
| | | | 8.1pF | ±0.05pF | **GRM1885C2A8R1WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A8R1BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A8R1CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A8R1DA01#** | |
| | | | 8.2pF | ±0.05pF | **GRM1885C2A8R2WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A8R2BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A8R2CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A8R2DA01#** | |
| | | | 8.3pF | ±0.05pF | **GRM1885C2A8R3WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A8R3BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A8R3CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A8R3DA01#** | |
| | | | 8.4pF | ±0.05pF | **GRM1885C2A8R4WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A8R4BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A8R4CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A8R4DA01#** | |
| | | | 8.5pF | ±0.05pF | **GRM1885C2A8R5WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A8R5BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A8R5CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A8R5DA01#** | |
| | | | 8.6pF | ±0.05pF | **GRM1885C2A8R6WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A8R6BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A8R6CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A8R6DA01#** | |
| | | | 8.7pF | ±0.05pF | **GRM1885C2A8R7WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A8R7BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A8R7CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A8R7DA01#** | |
| | | | 8.8pF | ±0.05pF | **GRM1885C2A8R8WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A8R8BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A8R8CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A8R8DA01#** | |
| | | | 8.9pF | ±0.05pF | **GRM1885C2A8R9WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A8R9BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A8R9CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A8R9DA01#** | |
| | | | 9.0pF | ±0.05pF | **GRM1885C2A9R0WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A9R0BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A9R0CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A9R0DA01#** | |
| | | | 9.1pF | ±0.05pF | **GRM1885C2A9R1WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A9R1BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A9R1CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A9R1DA01#** | |
| | | | 9.2pF | ±0.05pF | **GRM1885C2A9R2WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A9R2BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A9R2CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A9R2DA01#** | |
| | | | 9.3pF | ±0.05pF | **GRM1885C2A9R3WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A9R3BA01#** | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 100Vdc | C0G | 9.3pF | ±0.25pF | **GRM1885C2A9R3CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A9R3DA01#** | |
| | | | 9.4pF | ±0.05pF | **GRM1885C2A9R4WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A9R4BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A9R4CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A9R4DA01#** | |
| | | | 9.5pF | ±0.05pF | **GRM1885C2A9R5WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A9R5BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A9R5CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A9R5DA01#** | |
| | | | 9.6pF | ±0.05pF | **GRM1885C2A9R6WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A9R6BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A9R6CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A9R6DA01#** | |
| | | | 9.7pF | ±0.05pF | **GRM1885C2A9R7WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A9R7BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A9R7CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A9R7DA01#** | |
| | | | 9.8pF | ±0.05pF | **GRM1885C2A9R8WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A9R8BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A9R8CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A9R8DA01#** | |
| | | | 9.9pF | ±0.05pF | **GRM1885C2A9R9WA01#** | |
| | | | | ±0.1pF | **GRM1885C2A9R9BA01#** | |
| | | | | ±0.25pF | **GRM1885C2A9R9CA01#** | |
| | | | | ±0.5pF | **GRM1885C2A9R9DA01#** | |
| | | | 10pF | ±5% | **GRM1885C2A100JA01#** | |
| | | | 12pF | ±5% | **GRM1885C2A120JA01#** | |
| | | | 15pF | ±5% | **GRM1885C2A150JA01#** | |
| | | | 18pF | ±5% | **GRM1885C2A180JA01#** | |
| | | | 22pF | ±5% | **GRM1885C2A220JA01#** | |
| | | | 27pF | ±5% | **GRM1885C2A270JA01#** | |
| | | | 33pF | ±5% | **GRM1885C2A330JA01#** | |
| | | | 39pF | ±5% | **GRM1885C2A390JA01#** | |
| | | | 47pF | ±5% | **GRM1885C2A470JA01#** | |
| | | | 56pF | ±5% | **GRM1885C2A560JA01#** | |
| | | | 68pF | ±5% | **GRM1885C2A680JA01#** | |
| | | | 82pF | ±5% | **GRM1885C2A820JA01#** | |
| | | | 100pF | ±5% | **GRM1885C2A101JA01#** | |
| | | | 120pF | ±5% | **GRM1885C2A121JA01#** | |
| | | | 150pF | ±5% | **GRM1885C2A151JA01#** | |
| | | | 180pF | ±5% | **GRM1885C2A181JA01#** | |
| | | | 220pF | ±5% | **GRM1885C2A221JA01#** | |
| | | | 270pF | ±5% | **GRM1885C2A271JA01#** | |
| | | | 330pF | ±5% | **GRM1885C2A331JA01#** | |
| | | | 390pF | ±5% | **GRM1885C2A391JA01#** | |
| | | | 470pF | ±5% | **GRM1885C2A471JA01#** | |
| | | | 560pF | ±5% | **GRM1885C2A561JA01#** | |
| | | | 680pF | ±5% | **GRM1885C2A681JA01#** | |
| | | | 820pF | ±5% | **GRM1885C2A821JA01#** | |
| | | | 1000pF | ±5% | **GRM1885C2A102JA01#** | |
| | | | 1200pF | ±5% | **GRM1885C2A122JA01#** | |
| | | | 1500pF | ±5% | **GRM1885C2A152JA01#** | |
| | | CK | 0.50pF | ±0.05pF | **GRM1884C2AR50WA01#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 100Vdc | CK | 0.50pF | ±0.1pF | **GRM1884C2AR50BA01#** | |
| | | | 0.60pF | ±0.05pF | **GRM1884C2AR60WA01#** | |
| | | | | ±0.1pF | **GRM1884C2AR60BA01#** | |
| | | | 0.70pF | ±0.05pF | **GRM1884C2AR70WA01#** | |
| | | | | ±0.1pF | **GRM1884C2AR70BA01#** | |
| | | | 0.80pF | ±0.05pF | **GRM1884C2AR80WA01#** | |
| | | | | ±0.1pF | **GRM1884C2AR80BA01#** | |
| | | | 0.90pF | ±0.05pF | **GRM1884C2AR90WA01#** | |
| | | | | ±0.1pF | **GRM1884C2AR90BA01#** | |
| | | | 1.0pF | ±0.05pF | **GRM1884C2A1R0WA01#** | |
| | | | | ±0.1pF | **GRM1884C2A1R0BA01#** | |
| | | | | ±0.25pF | **GRM1884C2A1R0CA01#** | |
| | | | 1.1pF | ±0.05pF | **GRM1884C2A1R1WA01#** | |
| | | | | ±0.1pF | **GRM1884C2A1R1BA01#** | |
| | | | | ±0.25pF | **GRM1884C2A1R1CA01#** | |
| | | | 1.2pF | ±0.05pF | **GRM1884C2A1R2WA01#** | |
| | | | | ±0.1pF | **GRM1884C2A1R2BA01#** | |
| | | | | ±0.25pF | **GRM1884C2A1R2CA01#** | |
| | | | 1.3pF | ±0.05pF | **GRM1884C2A1R3WA01#** | |
| | | | | ±0.1pF | **GRM1884C2A1R3BA01#** | |
| | | | | ±0.25pF | **GRM1884C2A1R3CA01#** | |
| | | | 1.4pF | ±0.05pF | **GRM1884C2A1R4WA01#** | |
| | | | | ±0.1pF | **GRM1884C2A1R4BA01#** | |
| | | | | ±0.25pF | **GRM1884C2A1R4CA01#** | |
| | | | 1.5pF | ±0.05pF | **GRM1884C2A1R5WA01#** | |
| | | | | ±0.1pF | **GRM1884C2A1R5BA01#** | |
| | | | | ±0.25pF | **GRM1884C2A1R5CA01#** | |
| | | | 1.6pF | ±0.05pF | **GRM1884C2A1R6WA01#** | |
| | | | | ±0.1pF | **GRM1884C2A1R6BA01#** | |
| | | | | ±0.25pF | **GRM1884C2A1R6CA01#** | |
| | | | 1.7pF | ±0.05pF | **GRM1884C2A1R7WA01#** | |
| | | | | ±0.1pF | **GRM1884C2A1R7BA01#** | |
| | | | | ±0.25pF | **GRM1884C2A1R7CA01#** | |
| | | | 1.8pF | ±0.05pF | **GRM1884C2A1R8WA01#** | |
| | | | | ±0.1pF | **GRM1884C2A1R8BA01#** | |
| | | | | ±0.25pF | **GRM1884C2A1R8CA01#** | |
| | | | 1.9pF | ±0.05pF | **GRM1884C2A1R9WA01#** | |
| | | | | ±0.1pF | **GRM1884C2A1R9BA01#** | |
| | | | | ±0.25pF | **GRM1884C2A1R9CA01#** | |
| | | | 2.0pF | ±0.05pF | **GRM1884C2A2R0WA01#** | |
| | | | | ±0.1pF | **GRM1884C2A2R0BA01#** | |
| | | | | ±0.25pF | **GRM1884C2A2R0CA01#** | |
| | | CJ | 2.1pF | ±0.05pF | **GRM1883C2A2R1WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A2R1BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A2R1CA01#** | |
| | | | 2.2pF | ±0.05pF | **GRM1883C2A2R2WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A2R2BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A2R2CA01#** | |
| | | | 2.3pF | ±0.05pF | **GRM1883C2A2R3WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A2R3BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A2R3CA01#** | |
| | | | 2.4pF | ±0.05pF | **GRM1883C2A2R4WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A2R4BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A2R4CA01#** | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 100Vdc | CJ | 2.5pF | ±0.05pF | **GRM1883C2A2R5WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A2R5BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A2R5CA01#** | |
| | | | 2.6pF | ±0.05pF | **GRM1883C2A2R6WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A2R6BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A2R6CA01#** | |
| | | | 2.7pF | ±0.05pF | **GRM1883C2A2R7WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A2R7BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A2R7CA01#** | |
| | | | 2.8pF | ±0.05pF | **GRM1883C2A2R8WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A2R8BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A2R8CA01#** | |
| | | | 2.9pF | ±0.05pF | **GRM1883C2A2R9WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A2R9BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A2R9CA01#** | |
| | | | 3.0pF | ±0.05pF | **GRM1883C2A3R0WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A3R0BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A3R0CA01#** | |
| | | | 3.1pF | ±0.05pF | **GRM1883C2A3R1WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A3R1BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A3R1CA01#** | |
| | | | 3.2pF | ±0.05pF | **GRM1883C2A3R2WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A3R2BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A3R2CA01#** | |
| | | | 3.3pF | ±0.05pF | **GRM1883C2A3R3WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A3R3BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A3R3CA01#** | |
| | | | 3.4pF | ±0.05pF | **GRM1883C2A3R4WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A3R4BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A3R4CA01#** | |
| | | | 3.5pF | ±0.05pF | **GRM1883C2A3R5WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A3R5BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A3R5CA01#** | |
| | | | 3.6pF | ±0.05pF | **GRM1883C2A3R6WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A3R6BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A3R6CA01#** | |
| | | | 3.7pF | ±0.05pF | **GRM1883C2A3R7WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A3R7BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A3R7CA01#** | |
| | | | 3.8pF | ±0.05pF | **GRM1883C2A3R8WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A3R8BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A3R8CA01#** | |
| | | | 3.9pF | ±0.05pF | **GRM1883C2A3R9WA01#** | |
| | | | | ±0.1pF | **GRM1883C2A3R9BA01#** | |
| | | | | ±0.25pF | **GRM1883C2A3R9CA01#** | |
| | | CH | 4.0pF | ±0.05pF | **GRM1882C2A4R0WA01#** | |
| | | | | ±0.1pF | **GRM1882C2A4R0BA01#** | |
| | | | | ±0.25pF | **GRM1882C2A4R0CA01#** | |
| | | | 4.1pF | ±0.05pF | **GRM1882C2A4R1WA01#** | |
| | | | | ±0.1pF | **GRM1882C2A4R1BA01#** | |
| | | | | ±0.25pF | **GRM1882C2A4R1CA01#** | |
| | | | 4.2pF | ±0.05pF | **GRM1882C2A4R2WA01#** | |
| | | | | ±0.1pF | **GRM1882C2A4R2BA01#** | |
| | | | | ±0.25pF | **GRM1882C2A4R2CA01#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 100Vdc | CH | 4.3pF | ±0.05pF | GRM1882C2A4R3WA01# | |
| | | | | ±0.1pF | GRM1882C2A4R3BA01# | |
| | | | | ±0.25pF | GRM1882C2A4R3CA01# | |
| | | | 4.4pF | ±0.05pF | GRM1882C2A4R4WA01# | |
| | | | | ±0.1pF | GRM1882C2A4R4BA01# | |
| | | | | ±0.25pF | GRM1882C2A4R4CA01# | |
| | | | 4.5pF | ±0.05pF | GRM1882C2A4R5WA01# | |
| | | | | ±0.1pF | GRM1882C2A4R5BA01# | |
| | | | | ±0.25pF | GRM1882C2A4R5CA01# | |
| | | | 4.6pF | ±0.05pF | GRM1882C2A4R6WA01# | |
| | | | | ±0.1pF | GRM1882C2A4R6BA01# | |
| | | | | ±0.25pF | GRM1882C2A4R6CA01# | |
| | | | 4.7pF | ±0.05pF | GRM1882C2A4R7WA01# | |
| | | | | ±0.1pF | GRM1882C2A4R7BA01# | |
| | | | | ±0.25pF | GRM1882C2A4R7CA01# | |
| | | | 4.8pF | ±0.05pF | GRM1882C2A4R8WA01# | |
| | | | | ±0.1pF | GRM1882C2A4R8BA01# | |
| | | | | ±0.25pF | GRM1882C2A4R8CA01# | |
| | | | 4.9pF | ±0.05pF | GRM1882C2A4R9WA01# | |
| | | | | ±0.1pF | GRM1882C2A4R9BA01# | |
| | | | | ±0.25pF | GRM1882C2A4R9CA01# | |
| | | | 5.0pF | ±0.05pF | GRM1882C2A5R0WA01# | |
| | | | | ±0.1pF | GRM1882C2A5R0BA01# | |
| | | | | ±0.25pF | GRM1882C2A5R0CA01# | |
| | | | 5.1pF | ±0.05pF | GRM1882C2A5R1WA01# | |
| | | | | ±0.1pF | GRM1882C2A5R1BA01# | |
| | | | | ±0.25pF | GRM1882C2A5R1CA01# | |
| | | | | ±0.5pF | GRM1882C2A5R1DA01# | |
| | | | 5.2pF | ±0.05pF | GRM1882C2A5R2WA01# | |
| | | | | ±0.1pF | GRM1882C2A5R2BA01# | |
| | | | | ±0.25pF | GRM1882C2A5R2CA01# | |
| | | | | ±0.5pF | GRM1882C2A5R2DA01# | |
| | | | 5.3pF | ±0.05pF | GRM1882C2A5R3WA01# | |
| | | | | ±0.1pF | GRM1882C2A5R3BA01# | |
| | | | | ±0.25pF | GRM1882C2A5R3CA01# | |
| | | | | ±0.5pF | GRM1882C2A5R3DA01# | |
| | | | 5.4pF | ±0.05pF | GRM1882C2A5R4WA01# | |
| | | | | ±0.1pF | GRM1882C2A5R4BA01# | |
| | | | | ±0.25pF | GRM1882C2A5R4CA01# | |
| | | | | ±0.5pF | GRM1882C2A5R4DA01# | |
| | | | 5.5pF | ±0.05pF | GRM1882C2A5R5WA01# | |
| | | | | ±0.1pF | GRM1882C2A5R5BA01# | |
| | | | | ±0.25pF | GRM1882C2A5R5CA01# | |
| | | | | ±0.5pF | GRM1882C2A5R5DA01# | |
| | | | 5.6pF | ±0.05pF | GRM1882C2A5R6WA01# | |
| | | | | ±0.1pF | GRM1882C2A5R6BA01# | |
| | | | | ±0.25pF | GRM1882C2A5R6CA01# | |
| | | | | ±0.5pF | GRM1882C2A5R6DA01# | |
| | | | 5.7pF | ±0.05pF | GRM1882C2A5R7WA01# | |
| | | | | ±0.1pF | GRM1882C2A5R7BA01# | |
| | | | | ±0.25pF | GRM1882C2A5R7CA01# | |
| | | | | ±0.5pF | GRM1882C2A5R7DA01# | |
| | | | 5.8pF | ±0.05pF | GRM1882C2A5R8WA01# | |
| | | | | ±0.1pF | GRM1882C2A5R8BA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 100Vdc | CH | 5.8pF | ±0.25pF | GRM1882C2A5R8CA01# | |
| | | | | ±0.5pF | GRM1882C2A5R8DA01# | |
| | | | 5.9pF | ±0.05pF | GRM1882C2A5R9WA01# | |
| | | | | ±0.1pF | GRM1882C2A5R9BA01# | |
| | | | | ±0.25pF | GRM1882C2A5R9CA01# | |
| | | | | ±0.5pF | GRM1882C2A5R9DA01# | |
| | | | 6.0pF | ±0.05pF | GRM1882C2A6R0WA01# | |
| | | | | ±0.1pF | GRM1882C2A6R0BA01# | |
| | | | | ±0.25pF | GRM1882C2A6R0CA01# | |
| | | | | ±0.5pF | GRM1882C2A6R0DA01# | |
| | | | 6.1pF | ±0.05pF | GRM1882C2A6R1WA01# | |
| | | | | ±0.1pF | GRM1882C2A6R1BA01# | |
| | | | | ±0.25pF | GRM1882C2A6R1CA01# | |
| | | | | ±0.5pF | GRM1882C2A6R1DA01# | |
| | | | 6.2pF | ±0.05pF | GRM1882C2A6R2WA01# | |
| | | | | ±0.1pF | GRM1882C2A6R2BA01# | |
| | | | | ±0.25pF | GRM1882C2A6R2CA01# | |
| | | | | ±0.5pF | GRM1882C2A6R2DA01# | |
| | | | 6.3pF | ±0.05pF | GRM1882C2A6R3WA01# | |
| | | | | ±0.1pF | GRM1882C2A6R3BA01# | |
| | | | | ±0.25pF | GRM1882C2A6R3CA01# | |
| | | | | ±0.5pF | GRM1882C2A6R3DA01# | |
| | | | 6.4pF | ±0.05pF | GRM1882C2A6R4WA01# | |
| | | | | ±0.1pF | GRM1882C2A6R4BA01# | |
| | | | | ±0.25pF | GRM1882C2A6R4CA01# | |
| | | | | ±0.5pF | GRM1882C2A6R4DA01# | |
| | | | 6.5pF | ±0.05pF | GRM1882C2A6R5WA01# | |
| | | | | ±0.1pF | GRM1882C2A6R5BA01# | |
| | | | | ±0.25pF | GRM1882C2A6R5CA01# | |
| | | | | ±0.5pF | GRM1882C2A6R5DA01# | |
| | | | 6.6pF | ±0.05pF | GRM1882C2A6R6WA01# | |
| | | | | ±0.1pF | GRM1882C2A6R6BA01# | |
| | | | | ±0.25pF | GRM1882C2A6R6CA01# | |
| | | | | ±0.5pF | GRM1882C2A6R6DA01# | |
| | | | 6.7pF | ±0.05pF | GRM1882C2A6R7WA01# | |
| | | | | ±0.1pF | GRM1882C2A6R7BA01# | |
| | | | | ±0.25pF | GRM1882C2A6R7CA01# | |
| | | | | ±0.5pF | GRM1882C2A6R7DA01# | |
| | | | 6.8pF | ±0.05pF | GRM1882C2A6R8WA01# | |
| | | | | ±0.1pF | GRM1882C2A6R8BA01# | |
| | | | | ±0.25pF | GRM1882C2A6R8CA01# | |
| | | | | ±0.5pF | GRM1882C2A6R8DA01# | |
| | | | 6.9pF | ±0.05pF | GRM1882C2A6R9WA01# | |
| | | | | ±0.1pF | GRM1882C2A6R9BA01# | |
| | | | | ±0.25pF | GRM1882C2A6R9CA01# | |
| | | | | ±0.5pF | GRM1882C2A6R9DA01# | |
| | | | 7.0pF | ±0.05pF | GRM1882C2A7R0WA01# | |
| | | | | ±0.1pF | GRM1882C2A7R0BA01# | |
| | | | | ±0.25pF | GRM1882C2A7R0CA01# | |
| | | | | ±0.5pF | GRM1882C2A7R0DA01# | |
| | | | 7.1pF | ±0.05pF | GRM1882C2A7R1WA01# | |
| | | | | ±0.1pF | GRM1882C2A7R1BA01# | |
| | | | | ±0.25pF | GRM1882C2A7R1CA01# | |
| | | | | ±0.5pF | GRM1882C2A7R1DA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 100Vdc | CH | 7.2pF | ±0.05pF | GRM1882C2A7R2WA01# | |
| | | | | ±0.1pF | GRM1882C2A7R2BA01# | |
| | | | | ±0.25pF | GRM1882C2A7R2CA01# | |
| | | | | ±0.5pF | GRM1882C2A7R2DA01# | |
| | | | 7.3pF | ±0.05pF | GRM1882C2A7R3WA01# | |
| | | | | ±0.1pF | GRM1882C2A7R3BA01# | |
| | | | | ±0.25pF | GRM1882C2A7R3CA01# | |
| | | | | ±0.5pF | GRM1882C2A7R3DA01# | |
| | | | 7.4pF | ±0.05pF | GRM1882C2A7R4WA01# | |
| | | | | ±0.1pF | GRM1882C2A7R4BA01# | |
| | | | | ±0.25pF | GRM1882C2A7R4CA01# | |
| | | | | ±0.5pF | GRM1882C2A7R4DA01# | |
| | | | 7.5pF | ±0.05pF | GRM1882C2A7R5WA01# | |
| | | | | ±0.1pF | GRM1882C2A7R5BA01# | |
| | | | | ±0.25pF | GRM1882C2A7R5CA01# | |
| | | | | ±0.5pF | GRM1882C2A7R5DA01# | |
| | | | 7.6pF | ±0.05pF | GRM1882C2A7R6WA01# | |
| | | | | ±0.1pF | GRM1882C2A7R6BA01# | |
| | | | | ±0.25pF | GRM1882C2A7R6CA01# | |
| | | | | ±0.5pF | GRM1882C2A7R6DA01# | |
| | | | 7.7pF | ±0.05pF | GRM1882C2A7R7WA01# | |
| | | | | ±0.1pF | GRM1882C2A7R7BA01# | |
| | | | | ±0.25pF | GRM1882C2A7R7CA01# | |
| | | | | ±0.5pF | GRM1882C2A7R7DA01# | |
| | | | 7.8pF | ±0.05pF | GRM1882C2A7R8WA01# | |
| | | | | ±0.1pF | GRM1882C2A7R8BA01# | |
| | | | | ±0.25pF | GRM1882C2A7R8CA01# | |
| | | | | ±0.5pF | GRM1882C2A7R8DA01# | |
| | | | 7.9pF | ±0.05pF | GRM1882C2A7R9WA01# | |
| | | | | ±0.1pF | GRM1882C2A7R9BA01# | |
| | | | | ±0.25pF | GRM1882C2A7R9CA01# | |
| | | | | ±0.5pF | GRM1882C2A7R9DA01# | |
| | | | 8.0pF | ±0.05pF | GRM1882C2A8R0WA01# | |
| | | | | ±0.1pF | GRM1882C2A8R0BA01# | |
| | | | | ±0.25pF | GRM1882C2A8R0CA01# | |
| | | | | ±0.5pF | GRM1882C2A8R0DA01# | |
| | | | 8.1pF | ±0.05pF | GRM1882C2A8R1WA01# | |
| | | | | ±0.1pF | GRM1882C2A8R1BA01# | |
| | | | | ±0.25pF | GRM1882C2A8R1CA01# | |
| | | | | ±0.5pF | GRM1882C2A8R1DA01# | |
| | | | 8.2pF | ±0.05pF | GRM1882C2A8R2WA01# | |
| | | | | ±0.1pF | GRM1882C2A8R2BA01# | |
| | | | | ±0.25pF | GRM1882C2A8R2CA01# | |
| | | | | ±0.5pF | GRM1882C2A8R2DA01# | |
| | | | 8.3pF | ±0.05pF | GRM1882C2A8R3WA01# | |
| | | | | ±0.1pF | GRM1882C2A8R3BA01# | |
| | | | | ±0.25pF | GRM1882C2A8R3CA01# | |
| | | | | ±0.5pF | GRM1882C2A8R3DA01# | |
| | | | 8.4pF | ±0.05pF | GRM1882C2A8R4WA01# | |
| | | | | ±0.1pF | GRM1882C2A8R4BA01# | |
| | | | | ±0.25pF | GRM1882C2A8R4CA01# | |
| | | | | ±0.5pF | GRM1882C2A8R4DA01# | |
| | | | 8.5pF | ±0.05pF | GRM1882C2A8R5WA01# | |
| | | | | ±0.1pF | GRM1882C2A8R5BA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 100Vdc | CH | 8.5pF | ±0.25pF | GRM1882C2A8R5CA01# | |
| | | | | ±0.5pF | GRM1882C2A8R5DA01# | |
| | | | 8.6pF | ±0.05pF | GRM1882C2A8R6WA01# | |
| | | | | ±0.1pF | GRM1882C2A8R6BA01# | |
| | | | | ±0.25pF | GRM1882C2A8R6CA01# | |
| | | | | ±0.5pF | GRM1882C2A8R6DA01# | |
| | | | 8.7pF | ±0.05pF | GRM1882C2A8R7WA01# | |
| | | | | ±0.1pF | GRM1882C2A8R7BA01# | |
| | | | | ±0.25pF | GRM1882C2A8R7CA01# | |
| | | | | ±0.5pF | GRM1882C2A8R7DA01# | |
| | | | 8.8pF | ±0.05pF | GRM1882C2A8R8WA01# | |
| | | | | ±0.1pF | GRM1882C2A8R8BA01# | |
| | | | | ±0.25pF | GRM1882C2A8R8CA01# | |
| | | | | ±0.5pF | GRM1882C2A8R8DA01# | |
| | | | 8.9pF | ±0.05pF | GRM1882C2A8R9WA01# | |
| | | | | ±0.1pF | GRM1882C2A8R9BA01# | |
| | | | | ±0.25pF | GRM1882C2A8R9CA01# | |
| | | | | ±0.5pF | GRM1882C2A8R9DA01# | |
| | | | 9.0pF | ±0.05pF | GRM1882C2A9R0WA01# | |
| | | | | ±0.1pF | GRM1882C2A9R0BA01# | |
| | | | | ±0.25pF | GRM1882C2A9R0CA01# | |
| | | | | ±0.5pF | GRM1882C2A9R0DA01# | |
| | | | 9.1pF | ±0.05pF | GRM1882C2A9R1WA01# | |
| | | | | ±0.1pF | GRM1882C2A9R1BA01# | |
| | | | | ±0.25pF | GRM1882C2A9R1CA01# | |
| | | | | ±0.5pF | GRM1882C2A9R1DA01# | |
| | | | 9.2pF | ±0.05pF | GRM1882C2A9R2WA01# | |
| | | | | ±0.1pF | GRM1882C2A9R2BA01# | |
| | | | | ±0.25pF | GRM1882C2A9R2CA01# | |
| | | | | ±0.5pF | GRM1882C2A9R2DA01# | |
| | | | 9.3pF | ±0.05pF | GRM1882C2A9R3WA01# | |
| | | | | ±0.1pF | GRM1882C2A9R3BA01# | |
| | | | | ±0.25pF | GRM1882C2A9R3CA01# | |
| | | | | ±0.5pF | GRM1882C2A9R3DA01# | |
| | | | 9.4pF | ±0.05pF | GRM1882C2A9R4WA01# | |
| | | | | ±0.1pF | GRM1882C2A9R4BA01# | |
| | | | | ±0.25pF | GRM1882C2A9R4CA01# | |
| | | | | ±0.5pF | GRM1882C2A9R4DA01# | |
| | | | 9.5pF | ±0.05pF | GRM1882C2A9R5WA01# | |
| | | | | ±0.1pF | GRM1882C2A9R5BA01# | |
| | | | | ±0.25pF | GRM1882C2A9R5CA01# | |
| | | | | ±0.5pF | GRM1882C2A9R5DA01# | |
| | | | 9.6pF | ±0.05pF | GRM1882C2A9R6WA01# | |
| | | | | ±0.1pF | GRM1882C2A9R6BA01# | |
| | | | | ±0.25pF | GRM1882C2A9R6CA01# | |
| | | | | ±0.5pF | GRM1882C2A9R6DA01# | |
| | | | 9.7pF | ±0.05pF | GRM1882C2A9R7WA01# | |
| | | | | ±0.1pF | GRM1882C2A9R7BA01# | |
| | | | | ±0.25pF | GRM1882C2A9R7CA01# | |
| | | | | ±0.5pF | GRM1882C2A9R7DA01# | |
| | | | 9.8pF | ±0.05pF | GRM1882C2A9R8WA01# | |
| | | | | ±0.1pF | GRM1882C2A9R8BA01# | |
| | | | | ±0.25pF | GRM1882C2A9R8CA01# | |
| | | | | ±0.5pF | GRM1882C2A9R8DA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 100Vdc | CH | 9.9pF | ±0.05pF | GRM1882C2A9R9WA01# | |
| | | | | ±0.1pF | GRM1882C2A9R9BA01# | |
| | | | | ±0.25pF | GRM1882C2A9R9CA01# | |
| | | | | ±0.5pF | GRM1882C2A9R9DA01# | |
| | | | 10pF | ±5% | GRM1882C2A100JA01# | |
| | | | 12pF | ±5% | GRM1882C2A120JA01# | |
| | | | 15pF | ±5% | GRM1882C2A150JA01# | |
| | | | 18pF | ±5% | GRM1882C2A180JA01# | |
| | | | 22pF | ±5% | GRM1882C2A220JA01# | |
| | | | 27pF | ±5% | GRM1882C2A270JA01# | |
| | | | 33pF | ±5% | GRM1882C2A330JA01# | |
| | | | 39pF | ±5% | GRM1882C2A390JA01# | |
| | | | 47pF | ±5% | GRM1882C2A470JA01# | |
| | | | 56pF | ±5% | GRM1882C2A560JA01# | |
| | | | 68pF | ±5% | GRM1882C2A680JA01# | |
| | | | 82pF | ±5% | GRM1882C2A820JA01# | |
| | | | 100pF | ±5% | GRM1882C2A101JA01# | |
| | | | 120pF | ±5% | GRM1882C2A121JA01# | |
| | | | 150pF | ±5% | GRM1882C2A151JA01# | |
| | | | 180pF | ±5% | GRM1882C2A181JA01# | |
| | | | 220pF | ±5% | GRM1882C2A221JA01# | |
| | | | 270pF | ±5% | GRM1882C2A271JA01# | |
| | | | 330pF | ±5% | GRM1882C2A331JA01# | |
| | | | 390pF | ±5% | GRM1882C2A391JA01# | |
| | | | 470pF | ±5% | GRM1882C2A471JA01# | |
| | | | 560pF | ±5% | GRM1882C2A561JA01# | |
| | | | 680pF | ±5% | GRM1882C2A681JA01# | |
| | | | 820pF | ±5% | GRM1882C2A821JA01# | |
| | | | 1000pF | ±5% | GRM1882C2A102JA01# | |
| | | | 1200pF | ±5% | GRM1882C2A122JA01# | |
| | | | 1500pF | ±5% | GRM1882C2A152JA01# | |
| | 50Vdc | C0G | 0.50pF | ±0.05pF | GRM1885C1HR50WA01# | |
| | | | | ±0.1pF | GRM1885C1HR50BA01# | |
| | | | 0.60pF | ±0.05pF | GRM1885C1HR60WA01# | |
| | | | | ±0.1pF | GRM1885C1HR60BA01# | |
| | | | 0.70pF | ±0.05pF | GRM1885C1HR70WA01# | |
| | | | | ±0.1pF | GRM1885C1HR70BA01# | |
| | | | 0.80pF | ±0.05pF | GRM1885C1HR80WA01# | |
| | | | | ±0.1pF | GRM1885C1HR80BA01# | |
| | | | 0.90pF | ±0.05pF | GRM1885C1HR90WA01# | |
| | | | | ±0.1pF | GRM1885C1HR90BA01# | |
| | | | 1.0pF | ±0.05pF | GRM1885C1H1R0WA01# | |
| | | | | ±0.1pF | GRM1885C1H1R0BA01# | |
| | | | | ±0.25pF | GRM1885C1H1R0CA01# | |
| | | | 1.1pF | ±0.05pF | GRM1885C1H1R1WA01# | |
| | | | | ±0.1pF | GRM1885C1H1R1BA01# | |
| | | | | ±0.25pF | GRM1885C1H1R1CA01# | |
| | | | 1.2pF | ±0.05pF | GRM1885C1H1R2WA01# | |
| | | | | ±0.1pF | GRM1885C1H1R2BA01# | |
| | | | | ±0.25pF | GRM1885C1H1R2CA01# | |
| | | | 1.3pF | ±0.05pF | GRM1885C1H1R3WA01# | |
| | | | | ±0.1pF | GRM1885C1H1R3BA01# | |
| | | | | ±0.25pF | GRM1885C1H1R3CA01# | |
| | | | 1.4pF | ±0.05pF | GRM1885C1H1R4WA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 50Vdc | C0G | 1.4pF | ±0.1pF | GRM1885C1H1R4BA01# | |
| | | | | ±0.25pF | GRM1885C1H1R4CA01# | |
| | | | 1.5pF | ±0.05pF | GRM1885C1H1R5WA01# | |
| | | | | ±0.1pF | GRM1885C1H1R5BA01# | |
| | | | | ±0.25pF | GRM1885C1H1R5CA01# | |
| | | | 1.6pF | ±0.05pF | GRM1885C1H1R6WA01# | |
| | | | | ±0.1pF | GRM1885C1H1R6BA01# | |
| | | | | ±0.25pF | GRM1885C1H1R6CA01# | |
| | | | 1.7pF | ±0.05pF | GRM1885C1H1R7WA01# | |
| | | | | ±0.1pF | GRM1885C1H1R7BA01# | |
| | | | | ±0.25pF | GRM1885C1H1R7CA01# | |
| | | | 1.8pF | ±0.05pF | GRM1885C1H1R8WA01# | |
| | | | | ±0.1pF | GRM1885C1H1R8BA01# | |
| | | | | ±0.25pF | GRM1885C1H1R8CA01# | |
| | | | 1.9pF | ±0.05pF | GRM1885C1H1R9WA01# | |
| | | | | ±0.1pF | GRM1885C1H1R9BA01# | |
| | | | | ±0.25pF | GRM1885C1H1R9CA01# | |
| | | | 2.0pF | ±0.05pF | GRM1885C1H2R0WA01# | |
| | | | | ±0.1pF | GRM1885C1H2R0BA01# | |
| | | | | ±0.25pF | GRM1885C1H2R0CA01# | |
| | | | 2.1pF | ±0.05pF | GRM1885C1H2R1WA01# | |
| | | | | ±0.1pF | GRM1885C1H2R1BA01# | |
| | | | | ±0.25pF | GRM1885C1H2R1CA01# | |
| | | | 2.2pF | ±0.05pF | GRM1885C1H2R2WA01# | |
| | | | | ±0.1pF | GRM1885C1H2R2BA01# | |
| | | | | ±0.25pF | GRM1885C1H2R2CA01# | |
| | | | 2.3pF | ±0.05pF | GRM1885C1H2R3WA01# | |
| | | | | ±0.1pF | GRM1885C1H2R3BA01# | |
| | | | | ±0.25pF | GRM1885C1H2R3CA01# | |
| | | | 2.4pF | ±0.05pF | GRM1885C1H2R4WA01# | |
| | | | | ±0.1pF | GRM1885C1H2R4BA01# | |
| | | | | ±0.25pF | GRM1885C1H2R4CA01# | |
| | | | 2.5pF | ±0.05pF | GRM1885C1H2R5WA01# | |
| | | | | ±0.1pF | GRM1885C1H2R5BA01# | |
| | | | | ±0.25pF | GRM1885C1H2R5CA01# | |
| | | | 2.6pF | ±0.05pF | GRM1885C1H2R6WA01# | |
| | | | | ±0.1pF | GRM1885C1H2R6BA01# | |
| | | | | ±0.25pF | GRM1885C1H2R6CA01# | |
| | | | 2.7pF | ±0.05pF | GRM1885C1H2R7WA01# | |
| | | | | ±0.1pF | GRM1885C1H2R7BA01# | |
| | | | | ±0.25pF | GRM1885C1H2R7CA01# | |
| | | | 2.8pF | ±0.05pF | GRM1885C1H2R8WA01# | |
| | | | | ±0.1pF | GRM1885C1H2R8BA01# | |
| | | | | ±0.25pF | GRM1885C1H2R8CA01# | |
| | | | 2.9pF | ±0.05pF | GRM1885C1H2R9WA01# | |
| | | | | ±0.1pF | GRM1885C1H2R9BA01# | |
| | | | | ±0.25pF | GRM1885C1H2R9CA01# | |
| | | | 3.0pF | ±0.05pF | GRM1885C1H3R0WA01# | |
| | | | | ±0.1pF | GRM1885C1H3R0BA01# | |
| | | | | ±0.25pF | GRM1885C1H3R0CA01# | |
| | | | 3.1pF | ±0.05pF | GRM1885C1H3R1WA01# | |
| | | | | ±0.1pF | GRM1885C1H3R1BA01# | |
| | | | | ±0.25pF | GRM1885C1H3R1CA01# | |
| | | | 3.2pF | ±0.05pF | GRM1885C1H3R2WA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.9mm | 50Vdc | C0G | 3.2pF | ±0.1pF | **GRM1885C1H3R2BA01#** |
| | | | | ±0.25pF | **GRM1885C1H3R2CA01#** |
| | | | 3.3pF | ±0.05pF | **GRM1885C1H3R3WA01#** |
| | | | | ±0.1pF | **GRM1885C1H3R3BA01#** |
| | | | | ±0.25pF | **GRM1885C1H3R3CA01#** |
| | | | 3.4pF | ±0.05pF | **GRM1885C1H3R4WA01#** |
| | | | | ±0.1pF | **GRM1885C1H3R4BA01#** |
| | | | | ±0.25pF | **GRM1885C1H3R4CA01#** |
| | | | 3.5pF | ±0.05pF | **GRM1885C1H3R5WA01#** |
| | | | | ±0.1pF | **GRM1885C1H3R5BA01#** |
| | | | | ±0.25pF | **GRM1885C1H3R5CA01#** |
| | | | 3.6pF | ±0.05pF | **GRM1885C1H3R6WA01#** |
| | | | | ±0.1pF | **GRM1885C1H3R6BA01#** |
| | | | | ±0.25pF | **GRM1885C1H3R6CA01#** |
| | | | 3.7pF | ±0.05pF | **GRM1885C1H3R7WA01#** |
| | | | | ±0.1pF | **GRM1885C1H3R7BA01#** |
| | | | | ±0.25pF | **GRM1885C1H3R7CA01#** |
| | | | 3.8pF | ±0.05pF | **GRM1885C1H3R8WA01#** |
| | | | | ±0.1pF | **GRM1885C1H3R8BA01#** |
| | | | | ±0.25pF | **GRM1885C1H3R8CA01#** |
| | | | 3.9pF | ±0.05pF | **GRM1885C1H3R9WA01#** |
| | | | | ±0.1pF | **GRM1885C1H3R9BA01#** |
| | | | | ±0.25pF | **GRM1885C1H3R9CA01#** |
| | | | 4.0pF | ±0.05pF | **GRM1885C1H4R0WA01#** |
| | | | | ±0.1pF | **GRM1885C1H4R0BA01#** |
| | | | | ±0.25pF | **GRM1885C1H4R0CA01#** |
| | | | 4.1pF | ±0.05pF | **GRM1885C1H4R1WA01#** |
| | | | | ±0.1pF | **GRM1885C1H4R1BA01#** |
| | | | | ±0.25pF | **GRM1885C1H4R1CA01#** |
| | | | 4.2pF | ±0.05pF | **GRM1885C1H4R2WA01#** |
| | | | | ±0.1pF | **GRM1885C1H4R2BA01#** |
| | | | | ±0.25pF | **GRM1885C1H4R2CA01#** |
| | | | 4.3pF | ±0.05pF | **GRM1885C1H4R3WA01#** |
| | | | | ±0.1pF | **GRM1885C1H4R3BA01#** |
| | | | | ±0.25pF | **GRM1885C1H4R3CA01#** |
| | | | 4.4pF | ±0.05pF | **GRM1885C1H4R4WA01#** |
| | | | | ±0.1pF | **GRM1885C1H4R4BA01#** |
| | | | | ±0.25pF | **GRM1885C1H4R4CA01#** |
| | | | 4.5pF | ±0.05pF | **GRM1885C1H4R5WA01#** |
| | | | | ±0.1pF | **GRM1885C1H4R5BA01#** |
| | | | | ±0.25pF | **GRM1885C1H4R5CA01#** |
| | | | 4.6pF | ±0.05pF | **GRM1885C1H4R6WA01#** |
| | | | | ±0.1pF | **GRM1885C1H4R6BA01#** |
| | | | | ±0.25pF | **GRM1885C1H4R6CA01#** |
| | | | 4.7pF | ±0.05pF | **GRM1885C1H4R7WA01#** |
| | | | | ±0.1pF | **GRM1885C1H4R7BA01#** |
| | | | | ±0.25pF | **GRM1885C1H4R7CA01#** |
| | | | 4.8pF | ±0.05pF | **GRM1885C1H4R8WA01#** |
| | | | | ±0.1pF | **GRM1885C1H4R8BA01#** |
| | | | | ±0.25pF | **GRM1885C1H4R8CA01#** |
| | | | 4.9pF | ±0.05pF | **GRM1885C1H4R9WA01#** |
| | | | | ±0.1pF | **GRM1885C1H4R9BA01#** |
| | | | | ±0.25pF | **GRM1885C1H4R9CA01#** |
| | | | 5.0pF | ±0.05pF | **GRM1885C1H5R0WA01#** |
| 0.9mm | 50Vdc | C0G | 5.0pF | ±0.1pF | **GRM1885C1H5R0BA01#** |
| | | | | ±0.25pF | **GRM1885C1H5R0CA01#** |
| | | | 5.1pF | ±0.05pF | **GRM1885C1H5R1WA01#** |
| | | | | ±0.1pF | **GRM1885C1H5R1BA01#** |
| | | | | ±0.25pF | **GRM1885C1H5R1CA01#** |
| | | | | ±0.5pF | **GRM1885C1H5R1DA01#** |
| | | | 5.2pF | ±0.05pF | **GRM1885C1H5R2WA01#** |
| | | | | ±0.1pF | **GRM1885C1H5R2BA01#** |
| | | | | ±0.25pF | **GRM1885C1H5R2CA01#** |
| | | | | ±0.5pF | **GRM1885C1H5R2DA01#** |
| | | | 5.3pF | ±0.05pF | **GRM1885C1H5R3WA01#** |
| | | | | ±0.1pF | **GRM1885C1H5R3BA01#** |
| | | | | ±0.25pF | **GRM1885C1H5R3CA01#** |
| | | | | ±0.5pF | **GRM1885C1H5R3DA01#** |
| | | | 5.4pF | ±0.05pF | **GRM1885C1H5R4WA01#** |
| | | | | ±0.1pF | **GRM1885C1H5R4BA01#** |
| | | | | ±0.25pF | **GRM1885C1H5R4CA01#** |
| | | | | ±0.5pF | **GRM1885C1H5R4DA01#** |
| | | | 5.5pF | ±0.05pF | **GRM1885C1H5R5WA01#** |
| | | | | ±0.1pF | **GRM1885C1H5R5BA01#** |
| | | | | ±0.25pF | **GRM1885C1H5R5CA01#** |
| | | | | ±0.5pF | **GRM1885C1H5R5DA01#** |
| | | | 5.6pF | ±0.05pF | **GRM1885C1H5R6WA01#** |
| | | | | ±0.1pF | **GRM1885C1H5R6BA01#** |
| | | | | ±0.25pF | **GRM1885C1H5R6CA01#** |
| | | | | ±0.5pF | **GRM1885C1H5R6DA01#** |
| | | | 5.7pF | ±0.05pF | **GRM1885C1H5R7WA01#** |
| | | | | ±0.1pF | **GRM1885C1H5R7BA01#** |
| | | | | ±0.25pF | **GRM1885C1H5R7CA01#** |
| | | | | ±0.5pF | **GRM1885C1H5R7DA01#** |
| | | | 5.8pF | ±0.05pF | **GRM1885C1H5R8WA01#** |
| | | | | ±0.1pF | **GRM1885C1H5R8BA01#** |
| | | | | ±0.25pF | **GRM1885C1H5R8CA01#** |
| | | | | ±0.5pF | **GRM1885C1H5R8DA01#** |
| | | | 5.9pF | ±0.05pF | **GRM1885C1H5R9WA01#** |
| | | | | ±0.1pF | **GRM1885C1H5R9BA01#** |
| | | | | ±0.25pF | **GRM1885C1H5R9CA01#** |
| | | | | ±0.5pF | **GRM1885C1H5R9DA01#** |
| | | | 6.0pF | ±0.05pF | **GRM1885C1H6R0WA01#** |
| | | | | ±0.1pF | **GRM1885C1H6R0BA01#** |
| | | | | ±0.25pF | **GRM1885C1H6R0CA01#** |
| | | | | ±0.5pF | **GRM1885C1H6R0DA01#** |
| | | | 6.1pF | ±0.05pF | **GRM1885C1H6R1WA01#** |
| | | | | ±0.1pF | **GRM1885C1H6R1BA01#** |
| | | | | ±0.25pF | **GRM1885C1H6R1CA01#** |
| | | | | ±0.5pF | **GRM1885C1H6R1DA01#** |
| | | | 6.2pF | ±0.05pF | **GRM1885C1H6R2WA01#** |
| | | | | ±0.1pF | **GRM1885C1H6R2BA01#** |
| | | | | ±0.25pF | **GRM1885C1H6R2CA01#** |
| | | | | ±0.5pF | **GRM1885C1H6R2DA01#** |
| | | | 6.3pF | ±0.05pF | **GRM1885C1H6R3WA01#** |
| | | | | ±0.1pF | **GRM1885C1H6R3BA01#** |
| | | | | ±0.25pF | **GRM1885C1H6R3CA01#** |
| | | | | ±0.5pF | **GRM1885C1H6R3DA01#** |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 50Vdc | C0G | 6.4pF | ±0.05pF | GRM1885C1H6R4WA01# | |
| | | | | ±0.1pF | GRM1885C1H6R4BA01# | |
| | | | | ±0.25pF | GRM1885C1H6R4CA01# | |
| | | | | ±0.5pF | GRM1885C1H6R4DA01# | |
| | | | 6.5pF | ±0.05pF | GRM1885C1H6R5WA01# | |
| | | | | ±0.1pF | GRM1885C1H6R5BA01# | |
| | | | | ±0.25pF | GRM1885C1H6R5CA01# | |
| | | | | ±0.5pF | GRM1885C1H6R5DA01# | |
| | | | 6.6pF | ±0.05pF | GRM1885C1H6R6WA01# | |
| | | | | ±0.1pF | GRM1885C1H6R6BA01# | |
| | | | | ±0.25pF | GRM1885C1H6R6CA01# | |
| | | | | ±0.5pF | GRM1885C1H6R6DA01# | |
| | | | 6.7pF | ±0.05pF | GRM1885C1H6R7WA01# | |
| | | | | ±0.1pF | GRM1885C1H6R7BA01# | |
| | | | | ±0.25pF | GRM1885C1H6R7CA01# | |
| | | | | ±0.5pF | GRM1885C1H6R7DA01# | |
| | | | 6.8pF | ±0.05pF | GRM1885C1H6R8WA01# | |
| | | | | ±0.1pF | GRM1885C1H6R8BA01# | |
| | | | | ±0.25pF | GRM1885C1H6R8CA01# | |
| | | | | ±0.5pF | GRM1885C1H6R8DA01# | |
| | | | 6.9pF | ±0.05pF | GRM1885C1H6R9WA01# | |
| | | | | ±0.1pF | GRM1885C1H6R9BA01# | |
| | | | | ±0.25pF | GRM1885C1H6R9CA01# | |
| | | | | ±0.5pF | GRM1885C1H6R9DA01# | |
| | | | 7.0pF | ±0.05pF | GRM1885C1H7R0WA01# | |
| | | | | ±0.1pF | GRM1885C1H7R0BA01# | |
| | | | | ±0.25pF | GRM1885C1H7R0CA01# | |
| | | | | ±0.5pF | GRM1885C1H7R0DA01# | |
| | | | 7.1pF | ±0.05pF | GRM1885C1H7R1WA01# | |
| | | | | ±0.1pF | GRM1885C1H7R1BA01# | |
| | | | | ±0.25pF | GRM1885C1H7R1CA01# | |
| | | | | ±0.5pF | GRM1885C1H7R1DA01# | |
| | | | 7.2pF | ±0.05pF | GRM1885C1H7R2WA01# | |
| | | | | ±0.1pF | GRM1885C1H7R2BA01# | |
| | | | | ±0.25pF | GRM1885C1H7R2CA01# | |
| | | | | ±0.5pF | GRM1885C1H7R2DA01# | |
| | | | 7.3pF | ±0.05pF | GRM1885C1H7R3WA01# | |
| | | | | ±0.1pF | GRM1885C1H7R3BA01# | |
| | | | | ±0.25pF | GRM1885C1H7R3CA01# | |
| | | | | ±0.5pF | GRM1885C1H7R3DA01# | |
| | | | 7.4pF | ±0.05pF | GRM1885C1H7R4WA01# | |
| | | | | ±0.1pF | GRM1885C1H7R4BA01# | |
| | | | | ±0.25pF | GRM1885C1H7R4CA01# | |
| | | | | ±0.5pF | GRM1885C1H7R4DA01# | |
| | | | 7.5pF | ±0.05pF | GRM1885C1H7R5WA01# | |
| | | | | ±0.1pF | GRM1885C1H7R5BA01# | |
| | | | | ±0.25pF | GRM1885C1H7R5CA01# | |
| | | | | ±0.5pF | GRM1885C1H7R5DA01# | |
| | | | 7.6pF | ±0.05pF | GRM1885C1H7R6WA01# | |
| | | | | ±0.1pF | GRM1885C1H7R6BA01# | |
| | | | | ±0.25pF | GRM1885C1H7R6CA01# | |
| | | | | ±0.5pF | GRM1885C1H7R6DA01# | |
| | | | 7.7pF | ±0.05pF | GRM1885C1H7R7WA01# | |
| | | | | ±0.1pF | GRM1885C1H7R7BA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 50Vdc | C0G | 7.7pF | ±0.25pF | GRM1885C1H7R7CA01# | |
| | | | | ±0.5pF | GRM1885C1H7R7DA01# | |
| | | | 7.8pF | ±0.05pF | GRM1885C1H7R8WA01# | |
| | | | | ±0.1pF | GRM1885C1H7R8BA01# | |
| | | | | ±0.25pF | GRM1885C1H7R8CA01# | |
| | | | | ±0.5pF | GRM1885C1H7R8DA01# | |
| | | | 7.9pF | ±0.05pF | GRM1885C1H7R9WA01# | |
| | | | | ±0.1pF | GRM1885C1H7R9BA01# | |
| | | | | ±0.25pF | GRM1885C1H7R9CA01# | |
| | | | | ±0.5pF | GRM1885C1H7R9DA01# | |
| | | | 8.0pF | ±0.05pF | GRM1885C1H8R0WA01# | |
| | | | | ±0.1pF | GRM1885C1H8R0BA01# | |
| | | | | ±0.25pF | GRM1885C1H8R0CA01# | |
| | | | | ±0.5pF | GRM1885C1H8R0DA01# | |
| | | | 8.1pF | ±0.05pF | GRM1885C1H8R1WA01# | |
| | | | | ±0.1pF | GRM1885C1H8R1BA01# | |
| | | | | ±0.25pF | GRM1885C1H8R1CA01# | |
| | | | | ±0.5pF | GRM1885C1H8R1DA01# | |
| | | | 8.2pF | ±0.05pF | GRM1885C1H8R2WA01# | |
| | | | | ±0.1pF | GRM1885C1H8R2BA01# | |
| | | | | ±0.25pF | GRM1885C1H8R2CA01# | |
| | | | | ±0.5pF | GRM1885C1H8R2DA01# | |
| | | | 8.3pF | ±0.05pF | GRM1885C1H8R3WA01# | |
| | | | | ±0.1pF | GRM1885C1H8R3BA01# | |
| | | | | ±0.25pF | GRM1885C1H8R3CA01# | |
| | | | | ±0.5pF | GRM1885C1H8R3DA01# | |
| | | | 8.4pF | ±0.05pF | GRM1885C1H8R4WA01# | |
| | | | | ±0.1pF | GRM1885C1H8R4BA01# | |
| | | | | ±0.25pF | GRM1885C1H8R4CA01# | |
| | | | | ±0.5pF | GRM1885C1H8R4DA01# | |
| | | | 8.5pF | ±0.05pF | GRM1885C1H8R5WA01# | |
| | | | | ±0.1pF | GRM1885C1H8R5BA01# | |
| | | | | ±0.25pF | GRM1885C1H8R5CA01# | |
| | | | | ±0.5pF | GRM1885C1H8R5DA01# | |
| | | | 8.6pF | ±0.05pF | GRM1885C1H8R6WA01# | |
| | | | | ±0.1pF | GRM1885C1H8R6BA01# | |
| | | | | ±0.25pF | GRM1885C1H8R6CA01# | |
| | | | | ±0.5pF | GRM1885C1H8R6DA01# | |
| | | | 8.7pF | ±0.05pF | GRM1885C1H8R7WA01# | |
| | | | | ±0.1pF | GRM1885C1H8R7BA01# | |
| | | | | ±0.25pF | GRM1885C1H8R7CA01# | |
| | | | | ±0.5pF | GRM1885C1H8R7DA01# | |
| | | | 8.8pF | ±0.05pF | GRM1885C1H8R8WA01# | |
| | | | | ±0.1pF | GRM1885C1H8R8BA01# | |
| | | | | ±0.25pF | GRM1885C1H8R8CA01# | |
| | | | | ±0.5pF | GRM1885C1H8R8DA01# | |
| | | | 8.9pF | ±0.05pF | GRM1885C1H8R9WA01# | |
| | | | | ±0.1pF | GRM1885C1H8R9BA01# | |
| | | | | ±0.25pF | GRM1885C1H8R9CA01# | |
| | | | | ±0.5pF | GRM1885C1H8R9DA01# | |
| | | | 9.0pF | ±0.05pF | GRM1885C1H9R0WA01# | |
| | | | | ±0.1pF | GRM1885C1H9R0BA01# | |
| | | | | ±0.25pF | GRM1885C1H9R0CA01# | |
| | | | | ±0.5pF | GRM1885C1H9R0DA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 50Vdc | C0G | 9.1pF | ±0.05pF | GRM1885C1H9R1WA01# | |
| | | | | ±0.1pF | GRM1885C1H9R1BA01# | |
| | | | | ±0.25pF | GRM1885C1H9R1CA01# | |
| | | | | ±0.5pF | GRM1885C1H9R1DA01# | |
| | | | 9.2pF | ±0.05pF | GRM1885C1H9R2WA01# | |
| | | | | ±0.1pF | GRM1885C1H9R2BA01# | |
| | | | | ±0.25pF | GRM1885C1H9R2CA01# | |
| | | | | ±0.5pF | GRM1885C1H9R2DA01# | |
| | | | 9.3pF | ±0.05pF | GRM1885C1H9R3WA01# | |
| | | | | ±0.1pF | GRM1885C1H9R3BA01# | |
| | | | | ±0.25pF | GRM1885C1H9R3CA01# | |
| | | | | ±0.5pF | GRM1885C1H9R3DA01# | |
| | | | 9.4pF | ±0.05pF | GRM1885C1H9R4WA01# | |
| | | | | ±0.1pF | GRM1885C1H9R4BA01# | |
| | | | | ±0.25pF | GRM1885C1H9R4CA01# | |
| | | | | ±0.5pF | GRM1885C1H9R4DA01# | |
| | | | 9.5pF | ±0.05pF | GRM1885C1H9R5WA01# | |
| | | | | ±0.1pF | GRM1885C1H9R5BA01# | |
| | | | | ±0.25pF | GRM1885C1H9R5CA01# | |
| | | | | ±0.5pF | GRM1885C1H9R5DA01# | |
| | | | 9.6pF | ±0.05pF | GRM1885C1H9R6WA01# | |
| | | | | ±0.1pF | GRM1885C1H9R6BA01# | |
| | | | | ±0.25pF | GRM1885C1H9R6CA01# | |
| | | | | ±0.5pF | GRM1885C1H9R6DA01# | |
| | | | 9.7pF | ±0.05pF | GRM1885C1H9R7WA01# | |
| | | | | ±0.1pF | GRM1885C1H9R7BA01# | |
| | | | | ±0.25pF | GRM1885C1H9R7CA01# | |
| | | | | ±0.5pF | GRM1885C1H9R7DA01# | |
| | | | 9.8pF | ±0.05pF | GRM1885C1H9R8WA01# | |
| | | | | ±0.1pF | GRM1885C1H9R8BA01# | |
| | | | | ±0.25pF | GRM1885C1H9R8CA01# | |
| | | | | ±0.5pF | GRM1885C1H9R8DA01# | |
| | | | 9.9pF | ±0.05pF | GRM1885C1H9R9WA01# | |
| | | | | ±0.1pF | GRM1885C1H9R9BA01# | |
| | | | | ±0.25pF | GRM1885C1H9R9CA01# | |
| | | | | ±0.5pF | GRM1885C1H9R9DA01# | |
| | | | 10pF | ±5% | GRM1885C1H100JA01# | |
| | | | 12pF | ±5% | GRM1885C1H120JA01# | |
| | | | 15pF | ±5% | GRM1885C1H150JA01# | |
| | | | 18pF | ±5% | GRM1885C1H180JA01# | |
| | | | 22pF | ±5% | GRM1885C1H220JA01# | |
| | | | 27pF | ±5% | GRM1885C1H270JA01# | |
| | | | 33pF | ±5% | GRM1885C1H330JA01# | |
| | | | 39pF | ±5% | GRM1885C1H390JA01# | |
| | | | 47pF | ±5% | GRM1885C1H470JA01# | |
| | | | 56pF | ±5% | GRM1885C1H560JA01# | |
| | | | 68pF | ±5% | GRM1885C1H680JA01# | |
| | | | 82pF | ±5% | GRM1885C1H820JA01# | |
| | | | 100pF | ±5% | GRM1885C1H101JA01# | |
| | | | 120pF | ±5% | GRM1885C1H121JA01# | |
| | | | 150pF | ±5% | GRM1885C1H151JA01# | |
| | | | 180pF | ±5% | GRM1885C1H181JA01# | |
| | | | 220pF | ±5% | GRM1885C1H221JA01# | |
| | | | 270pF | ±5% | GRM1885C1H271JA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 50Vdc | C0G | 330pF | ±5% | GRM1885C1H331JA01# | |
| | | | 390pF | ±5% | GRM1885C1H391JA01# | |
| | | | 470pF | ±5% | GRM1885C1H471JA01# | |
| | | | 560pF | ±5% | GRM1885C1H561JA01# | |
| | | | 680pF | ±5% | GRM1885C1H681JA01# | |
| | | | 820pF | ±5% | GRM1885C1H821JA01# | |
| | | | 1000pF | ±5% | GRM1885C1H102JA01# | |
| | | | 1200pF | ±5% | GRM1885C1H122JA01# | |
| | | | 1500pF | ±5% | GRM1885C1H152JA01# | |
| | | | 1800pF | ±5% | GRM1885C1H182JA01# | |
| | | | 2200pF | ±5% | GRM1885C1H222JA01# | |
| | | | 2700pF | ±5% | GRM1885C1H272JA01# | |
| | | | 3300pF | ±5% | GRM1885C1H332JA01# | |
| | | | 3900pF | ±5% | GRM1885C1H392JA01# | |
| | | | 4700pF | ±5% | GRM1885C1H472JA01# | |
| | | | 5600pF | ±5% | GRM1885C1H562JA01# | |
| | | | 6800pF | ±5% | GRM1885C1H682JA01# | |
| | | | 8200pF | ±5% | GRM1885C1H822JA01# | |
| | | | 10000pF | ±5% | GRM1885C1H103JA01# | |
| | | CK | 0.50pF | ±0.05pF | GRM1884C1HR50WA01# | |
| | | | | ±0.1pF | GRM1884C1HR50BA01# | |
| | | | 0.60pF | ±0.05pF | GRM1884C1HR60WA01# | |
| | | | | ±0.1pF | GRM1884C1HR60BA01# | |
| | | | 0.70pF | ±0.05pF | GRM1884C1HR70WA01# | |
| | | | | ±0.1pF | GRM1884C1HR70BA01# | |
| | | | 0.80pF | ±0.05pF | GRM1884C1HR80WA01# | |
| | | | | ±0.1pF | GRM1884C1HR80BA01# | |
| | | | 0.90pF | ±0.05pF | GRM1884C1HR90WA01# | |
| | | | | ±0.1pF | GRM1884C1HR90BA01# | |
| | | | 1.0pF | ±0.05pF | GRM1884C1H1R0WA01# | |
| | | | | ±0.1pF | GRM1884C1H1R0BA01# | |
| | | | | ±0.25pF | GRM1884C1H1R0CA01# | |
| | | | 1.1pF | ±0.05pF | GRM1884C1H1R1WA01# | |
| | | | | ±0.1pF | GRM1884C1H1R1BA01# | |
| | | | | ±0.25pF | GRM1884C1H1R1CA01# | |
| | | | 1.2pF | ±0.05pF | GRM1884C1H1R2WA01# | |
| | | | | ±0.1pF | GRM1884C1H1R2BA01# | |
| | | | | ±0.25pF | GRM1884C1H1R2CA01# | |
| | | | 1.3pF | ±0.05pF | GRM1884C1H1R3WA01# | |
| | | | | ±0.1pF | GRM1884C1H1R3BA01# | |
| | | | | ±0.25pF | GRM1884C1H1R3CA01# | |
| | | | 1.4pF | ±0.05pF | GRM1884C1H1R4WA01# | |
| | | | | ±0.1pF | GRM1884C1H1R4BA01# | |
| | | | | ±0.25pF | GRM1884C1H1R4CA01# | |
| | | | 1.5pF | ±0.05pF | GRM1884C1H1R5WA01# | |
| | | | | ±0.1pF | GRM1884C1H1R5BA01# | |
| | | | | ±0.25pF | GRM1884C1H1R5CA01# | |
| | | | 1.6pF | ±0.05pF | GRM1884C1H1R6WA01# | |
| | | | | ±0.1pF | GRM1884C1H1R6BA01# | |
| | | | | ±0.25pF | GRM1884C1H1R6CA01# | |
| | | | 1.7pF | ±0.05pF | GRM1884C1H1R7WA01# | |
| | | | | ±0.1pF | GRM1884C1H1R7BA01# | |
| | | | | ±0.25pF | GRM1884C1H1R7CA01# | |
| | | | 1.8pF | ±0.05pF | GRM1884C1H1R8WA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 50Vdc | CK | 1.8pF | ±0.1pF | **GRM1884C1H1R8BA01#** | |
| | | | | ±0.25pF | **GRM1884C1H1R8CA01#** | |
| | | | 1.9pF | ±0.05pF | **GRM1884C1H1R9WA01#** | |
| | | | | ±0.1pF | **GRM1884C1H1R9BA01#** | |
| | | | | ±0.25pF | **GRM1884C1H1R9CA01#** | |
| | | | 2.0pF | ±0.05pF | **GRM1884C1H2R0WA01#** | |
| | | | | ±0.1pF | **GRM1884C1H2R0BA01#** | |
| | | | | ±0.25pF | **GRM1884C1H2R0CA01#** | |
| | | CJ | 2.1pF | ±0.05pF | **GRM1883C1H2R1WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H2R1BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H2R1CA01#** | |
| | | | 2.2pF | ±0.05pF | **GRM1883C1H2R2WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H2R2BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H2R2CA01#** | |
| | | | 2.3pF | ±0.05pF | **GRM1883C1H2R3WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H2R3BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H2R3CA01#** | |
| | | | 2.4pF | ±0.05pF | **GRM1883C1H2R4WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H2R4BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H2R4CA01#** | |
| | | | 2.5pF | ±0.05pF | **GRM1883C1H2R5WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H2R5BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H2R5CA01#** | |
| | | | 2.6pF | ±0.05pF | **GRM1883C1H2R6WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H2R6BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H2R6CA01#** | |
| | | | 2.7pF | ±0.05pF | **GRM1883C1H2R7WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H2R7BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H2R7CA01#** | |
| | | | 2.8pF | ±0.05pF | **GRM1883C1H2R8WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H2R8BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H2R8CA01#** | |
| | | | 2.9pF | ±0.05pF | **GRM1883C1H2R9WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H2R9BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H2R9CA01#** | |
| | | | 3.0pF | ±0.05pF | **GRM1883C1H3R0WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H3R0BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H3R0CA01#** | |
| | | | 3.1pF | ±0.05pF | **GRM1883C1H3R1WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H3R1BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H3R1CA01#** | |
| | | | 3.2pF | ±0.05pF | **GRM1883C1H3R2WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H3R2BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H3R2CA01#** | |
| | | | 3.3pF | ±0.05pF | **GRM1883C1H3R3WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H3R3BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H3R3CA01#** | |
| | | | 3.4pF | ±0.05pF | **GRM1883C1H3R4WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H3R4BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H3R4CA01#** | |
| | | | 3.5pF | ±0.05pF | **GRM1883C1H3R5WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H3R5BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H3R5CA01#** | |
| | | | 3.6pF | ±0.05pF | **GRM1883C1H3R6WA01#** | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 50Vdc | CJ | 3.6pF | ±0.1pF | **GRM1883C1H3R6BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H3R6CA01#** | |
| | | | 3.7pF | ±0.05pF | **GRM1883C1H3R7WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H3R7BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H3R7CA01#** | |
| | | | 3.8pF | ±0.05pF | **GRM1883C1H3R8WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H3R8BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H3R8CA01#** | |
| | | | 3.9pF | ±0.05pF | **GRM1883C1H3R9WA01#** | |
| | | | | ±0.1pF | **GRM1883C1H3R9BA01#** | |
| | | | | ±0.25pF | **GRM1883C1H3R9CA01#** | |
| | | CH | 4.0pF | ±0.05pF | **GRM1882C1H4R0WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H4R0BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H4R0CA01#** | |
| | | | 4.1pF | ±0.05pF | **GRM1882C1H4R1WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H4R1BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H4R1CA01#** | |
| | | | 4.2pF | ±0.05pF | **GRM1882C1H4R2WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H4R2BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H4R2CA01#** | |
| | | | 4.3pF | ±0.05pF | **GRM1882C1H4R3WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H4R3BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H4R3CA01#** | |
| | | | 4.4pF | ±0.05pF | **GRM1882C1H4R4WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H4R4BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H4R4CA01#** | |
| | | | 4.5pF | ±0.05pF | **GRM1882C1H4R5WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H4R5BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H4R5CA01#** | |
| | | | 4.6pF | ±0.05pF | **GRM1882C1H4R6WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H4R6BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H4R6CA01#** | |
| | | | 4.7pF | ±0.05pF | **GRM1882C1H4R7WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H4R7BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H4R7CA01#** | |
| | | | 4.8pF | ±0.05pF | **GRM1882C1H4R8WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H4R8BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H4R8CA01#** | |
| | | | 4.9pF | ±0.05pF | **GRM1882C1H4R9WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H4R9BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H4R9CA01#** | |
| | | | 5.0pF | ±0.05pF | **GRM1882C1H5R0WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H5R0BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H5R0CA01#** | |
| | | | 5.1pF | ±0.05pF | **GRM1882C1H5R1WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H5R1BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H5R1CA01#** | |
| | | | | ±0.5pF | **GRM1882C1H5R1DA01#** | |
| | | | 5.2pF | ±0.05pF | **GRM1882C1H5R2WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H5R2BA01#** | |
| | | | | ±0.25pF | **GRM1882C1H5R2CA01#** | |
| | | | | ±0.5pF | **GRM1882C1H5R2DA01#** | |
| | | | 5.3pF | ±0.05pF | **GRM1882C1H5R3WA01#** | |
| | | | | ±0.1pF | **GRM1882C1H5R3BA01#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.9mm | 50Vdc | CH | 5.3pF | ±0.25pF | GRM1882C1H5R3CA01# |
| | | | | ±0.5pF | GRM1882C1H5R3DA01# |
| | | | 5.4pF | ±0.05pF | GRM1882C1H5R4WA01# |
| | | | | ±0.1pF | GRM1882C1H5R4BA01# |
| | | | | ±0.25pF | GRM1882C1H5R4CA01# |
| | | | | ±0.5pF | GRM1882C1H5R4DA01# |
| | | | 5.5pF | ±0.05pF | GRM1882C1H5R5WA01# |
| | | | | ±0.1pF | GRM1882C1H5R5BA01# |
| | | | | ±0.25pF | GRM1882C1H5R5CA01# |
| | | | | ±0.5pF | GRM1882C1H5R5DA01# |
| | | | 5.6pF | ±0.05pF | GRM1882C1H5R6WA01# |
| | | | | ±0.1pF | GRM1882C1H5R6BA01# |
| | | | | ±0.25pF | GRM1882C1H5R6CA01# |
| | | | | ±0.5pF | GRM1882C1H5R6DA01# |
| | | | 5.7pF | ±0.05pF | GRM1882C1H5R7WA01# |
| | | | | ±0.1pF | GRM1882C1H5R7BA01# |
| | | | | ±0.25pF | GRM1882C1H5R7CA01# |
| | | | | ±0.5pF | GRM1882C1H5R7DA01# |
| | | | 5.8pF | ±0.05pF | GRM1882C1H5R8WA01# |
| | | | | ±0.1pF | GRM1882C1H5R8BA01# |
| | | | | ±0.25pF | GRM1882C1H5R8CA01# |
| | | | | ±0.5pF | GRM1882C1H5R8DA01# |
| | | | 5.9pF | ±0.05pF | GRM1882C1H5R9WA01# |
| | | | | ±0.1pF | GRM1882C1H5R9BA01# |
| | | | | ±0.25pF | GRM1882C1H5R9CA01# |
| | | | | ±0.5pF | GRM1882C1H5R9DA01# |
| | | | 6.0pF | ±0.05pF | GRM1882C1H6R0WA01# |
| | | | | ±0.1pF | GRM1882C1H6R0BA01# |
| | | | | ±0.25pF | GRM1882C1H6R0CA01# |
| | | | | ±0.5pF | GRM1882C1H6R0DA01# |
| | | | 6.1pF | ±0.05pF | GRM1882C1H6R1WA01# |
| | | | | ±0.1pF | GRM1882C1H6R1BA01# |
| | | | | ±0.25pF | GRM1882C1H6R1CA01# |
| | | | | ±0.5pF | GRM1882C1H6R1DA01# |
| | | | 6.2pF | ±0.05pF | GRM1882C1H6R2WA01# |
| | | | | ±0.1pF | GRM1882C1H6R2BA01# |
| | | | | ±0.25pF | GRM1882C1H6R2CA01# |
| | | | | ±0.5pF | GRM1882C1H6R2DA01# |
| | | | 6.3pF | ±0.05pF | GRM1882C1H6R3WA01# |
| | | | | ±0.1pF | GRM1882C1H6R3BA01# |
| | | | | ±0.25pF | GRM1882C1H6R3CA01# |
| | | | | ±0.5pF | GRM1882C1H6R3DA01# |
| | | | 6.4pF | ±0.05pF | GRM1882C1H6R4WA01# |
| | | | | ±0.1pF | GRM1882C1H6R4BA01# |
| | | | | ±0.25pF | GRM1882C1H6R4CA01# |
| | | | | ±0.5pF | GRM1882C1H6R4DA01# |
| | | | 6.5pF | ±0.05pF | GRM1882C1H6R5WA01# |
| | | | | ±0.1pF | GRM1882C1H6R5BA01# |
| | | | | ±0.25pF | GRM1882C1H6R5CA01# |
| | | | | ±0.5pF | GRM1882C1H6R5DA01# |
| | | | 6.6pF | ±0.05pF | GRM1882C1H6R6WA01# |
| | | | | ±0.1pF | GRM1882C1H6R6BA01# |
| | | | | ±0.25pF | GRM1882C1H6R6CA01# |
| | | | | ±0.5pF | GRM1882C1H6R6DA01# |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.9mm | 50Vdc | CH | 6.7pF | ±0.05pF | GRM1882C1H6R7WA01# |
| | | | | ±0.1pF | GRM1882C1H6R7BA01# |
| | | | | ±0.25pF | GRM1882C1H6R7CA01# |
| | | | | ±0.5pF | GRM1882C1H6R7DA01# |
| | | | 6.8pF | ±0.05pF | GRM1882C1H6R8WA01# |
| | | | | ±0.1pF | GRM1882C1H6R8BA01# |
| | | | | ±0.25pF | GRM1882C1H6R8CA01# |
| | | | | ±0.5pF | GRM1882C1H6R8DA01# |
| | | | 6.9pF | ±0.05pF | GRM1882C1H6R9WA01# |
| | | | | ±0.1pF | GRM1882C1H6R9BA01# |
| | | | | ±0.25pF | GRM1882C1H6R9CA01# |
| | | | | ±0.5pF | GRM1882C1H6R9DA01# |
| | | | 7.0pF | ±0.05pF | GRM1882C1H7R0WA01# |
| | | | | ±0.1pF | GRM1882C1H7R0BA01# |
| | | | | ±0.25pF | GRM1882C1H7R0CA01# |
| | | | | ±0.5pF | GRM1882C1H7R0DA01# |
| | | | 7.1pF | ±0.05pF | GRM1882C1H7R1WA01# |
| | | | | ±0.1pF | GRM1882C1H7R1BA01# |
| | | | | ±0.25pF | GRM1882C1H7R1CA01# |
| | | | | ±0.5pF | GRM1882C1H7R1DA01# |
| | | | 7.2pF | ±0.05pF | GRM1882C1H7R2WA01# |
| | | | | ±0.1pF | GRM1882C1H7R2BA01# |
| | | | | ±0.25pF | GRM1882C1H7R2CA01# |
| | | | | ±0.5pF | GRM1882C1H7R2DA01# |
| | | | 7.3pF | ±0.05pF | GRM1882C1H7R3WA01# |
| | | | | ±0.1pF | GRM1882C1H7R3BA01# |
| | | | | ±0.25pF | GRM1882C1H7R3CA01# |
| | | | | ±0.5pF | GRM1882C1H7R3DA01# |
| | | | 7.4pF | ±0.05pF | GRM1882C1H7R4WA01# |
| | | | | ±0.1pF | GRM1882C1H7R4BA01# |
| | | | | ±0.25pF | GRM1882C1H7R4CA01# |
| | | | | ±0.5pF | GRM1882C1H7R4DA01# |
| | | | 7.5pF | ±0.05pF | GRM1882C1H7R5WA01# |
| | | | | ±0.1pF | GRM1882C1H7R5BA01# |
| | | | | ±0.25pF | GRM1882C1H7R5CA01# |
| | | | | ±0.5pF | GRM1882C1H7R5DA01# |
| | | | 7.6pF | ±0.05pF | GRM1882C1H7R6WA01# |
| | | | | ±0.1pF | GRM1882C1H7R6BA01# |
| | | | | ±0.25pF | GRM1882C1H7R6CA01# |
| | | | | ±0.5pF | GRM1882C1H7R6DA01# |
| | | | 7.7pF | ±0.05pF | GRM1882C1H7R7WA01# |
| | | | | ±0.1pF | GRM1882C1H7R7BA01# |
| | | | | ±0.25pF | GRM1882C1H7R7CA01# |
| | | | | ±0.5pF | GRM1882C1H7R7DA01# |
| | | | 7.8pF | ±0.05pF | GRM1882C1H7R8WA01# |
| | | | | ±0.1pF | GRM1882C1H7R8BA01# |
| | | | | ±0.25pF | GRM1882C1H7R8CA01# |
| | | | | ±0.5pF | GRM1882C1H7R8DA01# |
| | | | 7.9pF | ±0.05pF | GRM1882C1H7R9WA01# |
| | | | | ±0.1pF | GRM1882C1H7R9BA01# |
| | | | | ±0.25pF | GRM1882C1H7R9CA01# |
| | | | | ±0.5pF | GRM1882C1H7R9DA01# |
| | | | 8.0pF | ±0.05pF | GRM1882C1H8R0WA01# |
| | | | | ±0.1pF | GRM1882C1H8R0BA01# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 1.6×0.8mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 50Vdc | CH | 8.0pF | ±0.25pF | GRM1882C1H8R0CA01# | |
| | | | | ±0.5pF | GRM1882C1H8R0DA01# | |
| | | | 8.1pF | ±0.05pF | GRM1882C1H8R1WA01# | |
| | | | | ±0.1pF | GRM1882C1H8R1BA01# | |
| | | | | ±0.25pF | GRM1882C1H8R1CA01# | |
| | | | | ±0.5pF | GRM1882C1H8R1DA01# | |
| | | | 8.2pF | ±0.05pF | GRM1882C1H8R2WA01# | |
| | | | | ±0.1pF | GRM1882C1H8R2BA01# | |
| | | | | ±0.25pF | GRM1882C1H8R2CA01# | |
| | | | | ±0.5pF | GRM1882C1H8R2DA01# | |
| | | | 8.3pF | ±0.05pF | GRM1882C1H8R3WA01# | |
| | | | | ±0.1pF | GRM1882C1H8R3BA01# | |
| | | | | ±0.25pF | GRM1882C1H8R3CA01# | |
| | | | | ±0.5pF | GRM1882C1H8R3DA01# | |
| | | | 8.4pF | ±0.05pF | GRM1882C1H8R4WA01# | |
| | | | | ±0.1pF | GRM1882C1H8R4BA01# | |
| | | | | ±0.25pF | GRM1882C1H8R4CA01# | |
| | | | | ±0.5pF | GRM1882C1H8R4DA01# | |
| | | | 8.5pF | ±0.05pF | GRM1882C1H8R5WA01# | |
| | | | | ±0.1pF | GRM1882C1H8R5BA01# | |
| | | | | ±0.25pF | GRM1882C1H8R5CA01# | |
| | | | | ±0.5pF | GRM1882C1H8R5DA01# | |
| | | | 8.6pF | ±0.05pF | GRM1882C1H8R6WA01# | |
| | | | | ±0.1pF | GRM1882C1H8R6BA01# | |
| | | | | ±0.25pF | GRM1882C1H8R6CA01# | |
| | | | | ±0.5pF | GRM1882C1H8R6DA01# | |
| | | | 8.7pF | ±0.05pF | GRM1882C1H8R7WA01# | |
| | | | | ±0.1pF | GRM1882C1H8R7BA01# | |
| | | | | ±0.25pF | GRM1882C1H8R7CA01# | |
| | | | | ±0.5pF | GRM1882C1H8R7DA01# | |
| | | | 8.8pF | ±0.05pF | GRM1882C1H8R8WA01# | |
| | | | | ±0.1pF | GRM1882C1H8R8BA01# | |
| | | | | ±0.25pF | GRM1882C1H8R8CA01# | |
| | | | | ±0.5pF | GRM1882C1H8R8DA01# | |
| | | | 8.9pF | ±0.05pF | GRM1882C1H8R9WA01# | |
| | | | | ±0.1pF | GRM1882C1H8R9BA01# | |
| | | | | ±0.25pF | GRM1882C1H8R9CA01# | |
| | | | | ±0.5pF | GRM1882C1H8R9DA01# | |
| | | | 9.0pF | ±0.05pF | GRM1882C1H9R0WA01# | |
| | | | | ±0.1pF | GRM1882C1H9R0BA01# | |
| | | | | ±0.25pF | GRM1882C1H9R0CA01# | |
| | | | | ±0.5pF | GRM1882C1H9R0DA01# | |
| | | | 9.1pF | ±0.05pF | GRM1882C1H9R1WA01# | |
| | | | | ±0.1pF | GRM1882C1H9R1BA01# | |
| | | | | ±0.25pF | GRM1882C1H9R1CA01# | |
| | | | | ±0.5pF | GRM1882C1H9R1DA01# | |
| | | | 9.2pF | ±0.05pF | GRM1882C1H9R2WA01# | |
| | | | | ±0.1pF | GRM1882C1H9R2BA01# | |
| | | | | ±0.25pF | GRM1882C1H9R2CA01# | |
| | | | | ±0.5pF | GRM1882C1H9R2DA01# | |
| | | | 9.3pF | ±0.05pF | GRM1882C1H9R3WA01# | |
| | | | | ±0.1pF | GRM1882C1H9R3BA01# | |
| | | | | ±0.25pF | GRM1882C1H9R3CA01# | |
| | | | | ±0.5pF | GRM1882C1H9R3DA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 50Vdc | CH | 9.4pF | ±0.05pF | GRM1882C1H9R4WA01# | |
| | | | | ±0.1pF | GRM1882C1H9R4BA01# | |
| | | | | ±0.25pF | GRM1882C1H9R4CA01# | |
| | | | | ±0.5pF | GRM1882C1H9R4DA01# | |
| | | | 9.5pF | ±0.05pF | GRM1882C1H9R5WA01# | |
| | | | | ±0.1pF | GRM1882C1H9R5BA01# | |
| | | | | ±0.25pF | GRM1882C1H9R5CA01# | |
| | | | | ±0.5pF | GRM1882C1H9R5DA01# | |
| | | | 9.6pF | ±0.05pF | GRM1882C1H9R6WA01# | |
| | | | | ±0.1pF | GRM1882C1H9R6BA01# | |
| | | | | ±0.25pF | GRM1882C1H9R6CA01# | |
| | | | | ±0.5pF | GRM1882C1H9R6DA01# | |
| | | | 9.7pF | ±0.05pF | GRM1882C1H9R7WA01# | |
| | | | | ±0.1pF | GRM1882C1H9R7BA01# | |
| | | | | ±0.25pF | GRM1882C1H9R7CA01# | |
| | | | | ±0.5pF | GRM1882C1H9R7DA01# | |
| | | | 9.8pF | ±0.05pF | GRM1882C1H9R8WA01# | |
| | | | | ±0.1pF | GRM1882C1H9R8BA01# | |
| | | | | ±0.25pF | GRM1882C1H9R8CA01# | |
| | | | | ±0.5pF | GRM1882C1H9R8DA01# | |
| | | | 9.9pF | ±0.05pF | GRM1882C1H9R9WA01# | |
| | | | | ±0.1pF | GRM1882C1H9R9BA01# | |
| | | | | ±0.25pF | GRM1882C1H9R9CA01# | |
| | | | | ±0.5pF | GRM1882C1H9R9DA01# | |
| | | | 10pF | ±5% | GRM1882C1H100JA01# | |
| | | | 12pF | ±5% | GRM1882C1H120JA01# | |
| | | | 15pF | ±5% | GRM1882C1H150JA01# | |
| | | | 18pF | ±5% | GRM1882C1H180JA01# | |
| | | | 22pF | ±5% | GRM1882C1H220JA01# | |
| | | | 27pF | ±5% | GRM1882C1H270JA01# | |
| | | | 33pF | ±5% | GRM1882C1H330JA01# | |
| | | | 39pF | ±5% | GRM1882C1H390JA01# | |
| | | | 47pF | ±5% | GRM1882C1H470JA01# | |
| | | | 56pF | ±5% | GRM1882C1H560JA01# | |
| | | | 68pF | ±5% | GRM1882C1H680JA01# | |
| | | | 82pF | ±5% | GRM1882C1H820JA01# | |
| | | | 100pF | ±5% | GRM1882C1H101JA01# | |
| | | | 120pF | ±5% | GRM1882C1H121JA01# | |
| | | | 150pF | ±5% | GRM1882C1H151JA01# | |
| | | | 180pF | ±5% | GRM1882C1H181JA01# | |
| | | | 220pF | ±5% | GRM1882C1H221JA01# | |
| | | | 270pF | ±5% | GRM1882C1H271JA01# | |
| | | | 330pF | ±5% | GRM1882C1H331JA01# | |
| | | | 390pF | ±5% | GRM1882C1H391JA01# | |
| | | | 470pF | ±5% | GRM1882C1H471JA01# | |
| | | | 560pF | ±5% | GRM1882C1H561JA01# | |
| | | | 680pF | ±5% | GRM1882C1H681JA01# | |
| | | | 820pF | ±5% | GRM1882C1H821JA01# | |
| | | | 1000pF | ±5% | GRM1882C1H102JA01# | |
| | | | 1200pF | ±5% | GRM1882C1H122JA01# | |
| | | | 1500pF | ±5% | GRM1882C1H152JA01# | |
| | | | 1800pF | ±5% | GRM1882C1H182JA01# | |
| | | | 2200pF | ±5% | GRM1882C1H222JA01# | |
| | | | 2700pF | ±5% | GRM1882C1H272JA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

## (→ 1.6×0.8mm)

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 50Vdc | CH | 3300pF | ±5% | GRM1882C1H332JA01# | |
| | | | 3900pF | ±5% | GRM1882C1H392JA01# | |
| | | | 4700pF | ±5% | GRM1882C1H472JA01# | |
| | | | 5600pF | ±5% | GRM1882C1H562JA01# | |
| | | | 6800pF | ±5% | GRM1882C1H682JA01# | |
| | | | 8200pF | ±5% | GRM1882C1H822JA01# | |
| | | | 10000pF | ±5% | GRM1882C1H103JA01# | |
| | | SL | 1200pF | ±5% | GRM1881X1H122JA01# | |
| | | | 1500pF | ±5% | GRM1881X1H152JA01# | |
| | | | 1800pF | ±5% | GRM1881X1H182JA01# | |
| | | | 2200pF | ±5% | GRM1881X1H222JA01# | |
| | | | 2700pF | ±5% | GRM1881X1H272JA01# | |
| | | | 3300pF | ±5% | GRM1881X1H332JA01# | |
| | | | 3900pF | ±5% | GRM1881X1H392JA01# | |
| | | | 4700pF | ±5% | GRM1881X1H472JA01# | |
| | | | 5600pF | ±5% | GRM1881X1H562JA01# | |
| | | | 6800pF | ±5% | GRM1881X1H682JA01# | |
| | | | 8200pF | ±5% | GRM1881X1H822JA01# | |
| | | | 10000pF | ±5% | GRM1881X1H103JA01# | |
| | | U2J | 1200pF | ±5% | GRM1887U1H122JA01# | |
| | | | 1500pF | ±5% | GRM1887U1H152JA01# | |
| | | | 1800pF | ±5% | GRM1887U1H182JA01# | |
| | | | 2200pF | ±5% | GRM1887U1H222JA01# | |
| | | | 2700pF | ±5% | GRM1887U1H272JA01# | |
| | | | 3300pF | ±5% | GRM1887U1H332JA01# | |
| | | | 3900pF | ±5% | GRM1887U1H392JA01# | |
| | | | 4700pF | ±5% | GRM1887U1H472JA01# | |
| | | | 5600pF | ±5% | GRM1887U1H562JA01# | |
| | | | 6800pF | ±5% | GRM1887U1H682JA01# | |
| | | | 8200pF | ±5% | GRM1887U1H822JA01# | |
| | | | 10000pF | ±5% | GRM1887U1H103JA01# | |
| | | UJ | 1000pF | ±5% | GRM1883U1H102JA01# | |
| | | | 1200pF | ±5% | GRM1883U1H122JA01# | |
| | | | 1500pF | ±5% | GRM1883U1H152JA01# | |
| | | | 1800pF | ±5% | GRM1883U1H182JA01# | |
| | | | 2200pF | ±5% | GRM1883U1H222JA01# | |
| | | | 2700pF | ±5% | GRM1883U1H272JA01# | |
| | | | 3300pF | ±5% | GRM1883U1H332JA01# | |
| | | | 3900pF | ±5% | GRM1883U1H392JA01# | |
| | | | 4700pF | ±5% | GRM1883U1H472JA01# | |
| | | | 5600pF | ±5% | GRM1883U1H562JA01# | |
| | | | 6800pF | ±5% | GRM1883U1H682JA01# | |
| | | | 8200pF | ±5% | GRM1883U1H822JA01# | |
| | | | 10000pF | ±5% | GRM1883U1H103JA01# | |
| | 10Vdc | SL | 12000pF | ±5% | GRM1881X1A123JA01# | |
| | | | 15000pF | ±5% | GRM1881X1A153JA01# | |
| | | | 18000pF | ±5% | GRM1881X1A183JA01# | |
| | | | 22000pF | ±5% | GRM1881X1A223JA01# | |
| | | U2J | 12000pF | ±5% | GRM1887U1A123JA01# | |
| | | | 15000pF | ±5% | GRM1887U1A153JA01# | |
| | | | 18000pF | ±5% | GRM1887U1A183JA01# | |
| | | | 22000pF | ±5% | GRM1887U1A223JA01# | |
| | | UJ | 12000pF | ±5% | GRM1883U1A123JA01# | |
| | | | 15000pF | ±5% | GRM1883U1A153JA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.9mm | 10Vdc | UJ | 18000pF | ±5% | GRM1883U1A183JA01# | |
| | | | 22000pF | ±5% | GRM1883U1A223JA01# | |

## 2.0×1.25mm

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.7mm | 100Vdc | C0G | 100pF | ±5% | GRM2165C2A101JA01# | |
| | | | 120pF | ±5% | GRM2165C2A121JA01# | |
| | | | 150pF | ±5% | GRM2165C2A151JA01# | |
| | | | 180pF | ±5% | GRM2165C2A181JA01# | |
| | | | 220pF | ±5% | GRM2165C2A221JA01# | |
| | | | 270pF | ±5% | GRM2165C2A271JA01# | |
| | | | 330pF | ±5% | GRM2165C2A331JA01# | |
| | | | 390pF | ±5% | GRM2165C2A391JA01# | |
| | | | 470pF | ±5% | GRM2165C2A471JA01# | |
| | | | 560pF | ±5% | GRM2165C2A561JA01# | |
| | | | 680pF | ±5% | GRM2165C2A681JA01# | |
| | | | 820pF | ±5% | GRM2165C2A821JA01# | |
| | | | 1000pF | ±5% | GRM2165C2A102JA01# | |
| | | | 1200pF | ±5% | GRM2165C2A122JA01# | |
| | | | 1500pF | ±5% | GRM2165C2A152JA01# | |
| | | | 1800pF | ±5% | GRM2165C2A182JA01# | |
| | | | 2200pF | ±5% | GRM2165C2A222JA01# | |
| | | | 2700pF | ±5% | GRM2165C2A272JA01# | |
| | | | 3300pF | ±5% | GRM2165C2A332JA01# | |
| | | CH | 100pF | ±5% | GRM2162C2A101JA01# | |
| | | | 120pF | ±5% | GRM2162C2A121JA01# | |
| | | | 150pF | ±5% | GRM2162C2A151JA01# | |
| | | | 180pF | ±5% | GRM2162C2A181JA01# | |
| | | | 220pF | ±5% | GRM2162C2A221JA01# | |
| | | | 270pF | ±5% | GRM2162C2A271JA01# | |
| | | | 330pF | ±5% | GRM2162C2A331JA01# | |
| | | | 390pF | ±5% | GRM2162C2A391JA01# | |
| | | | 470pF | ±5% | GRM2162C2A471JA01# | |
| | | | 560pF | ±5% | GRM2162C2A561JA01# | |
| | | | 680pF | ±5% | GRM2162C2A681JA01# | |
| | | | 820pF | ±5% | GRM2162C2A821JA01# | |
| | | | 1000pF | ±5% | GRM2162C2A102JA01# | |
| | | | 1200pF | ±5% | GRM2162C2A122JA01# | |
| | | | 1500pF | ±5% | GRM2162C2A152JA01# | |
| | | | 1800pF | ±5% | GRM2162C2A182JA01# | |
| | | | 2200pF | ±5% | GRM2162C2A222JA01# | |
| | | | 2700pF | ±5% | GRM2162C2A272JA01# | |
| | | | 3300pF | ±5% | GRM2162C2A332JA01# | |
| | 50Vdc | C0G | 1200pF | ±5% | GRM2165C1H122JA01# | |
| | | | 1500pF | ±5% | GRM2165C1H152JA01# | |
| | | | 1800pF | ±5% | GRM2165C1H182JA01# | |
| | | | 2200pF | ±5% | GRM2165C1H222JA01# | |
| | | | 2700pF | ±5% | GRM2165C1H272JA01# | |
| | | | 3300pF | ±5% | GRM2165C1H332JA01# | |
| | | | 3900pF | ±5% | GRM2165C1H392JA01# | |
| | | | 4700pF | ±5% | GRM2165C1H472JA01# | |
| | | CH | 1200pF | ±5% | GRM2162C1H122JA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 2.0×1.25mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 0.7mm | 50Vdc | CH | 1500pF | ±5% | GRM2162C1H152JA01# |
| | | | 1800pF | ±5% | GRM2162C1H182JA01# |
| | | | 2200pF | ±5% | GRM2162C1H222JA01# |
| | | | 2700pF | ±5% | GRM2162C1H272JA01# |
| | | | 3300pF | ±5% | GRM2162C1H332JA01# |
| | | | 3900pF | ±5% | GRM2162C1H392JA01# |
| | | | 4700pF | ±5% | GRM2162C1H472JA01# |
| | | SL | 12000pF | ±5% | GRM2161X1H123JA01# |
| | | | 15000pF | ±5% | GRM2161X1H153JA01# |
| | | | 18000pF | ±5% | GRM2161X1H183JA01# |
| | | U2J | 12000pF | ±5% | GRM2167U1H123JA01# |
| | | | 15000pF | ±5% | GRM2167U1H153JA01# |
| | | | 18000pF | ±5% | GRM2167U1H183JA01# |
| | | UJ | 10000pF | ±5% | GRM2163U1H103JA01# |
| | | | 12000pF | ±5% | GRM2163U1H123JA01# |
| | | | 15000pF | ±5% | GRM2163U1H153JA01# |
| | | | 18000pF | ±5% | GRM2163U1H183JA01# |
| 0.95mm | 50Vdc | C0G | 5600pF | ±5% | GRM2195C1H562JA01# |
| | | | 6800pF | ±5% | GRM2195C1H682JA01# |
| | | | 8200pF | ±5% | GRM2195C1H822JA01# |
| | | | 10000pF | ±5% | GRM2195C1H103JA01# |
| | | | 12000pF | ±5% | GRM2195C1H123JA01# |
| | | | 15000pF | ±5% | GRM2195C1H153JA01# |
| | | CH | 5600pF | ±5% | GRM2192C1H562JA01# |
| | | | 6800pF | ±5% | GRM2192C1H682JA01# |
| | | | 8200pF | ±5% | GRM2192C1H822JA01# |
| | | | 10000pF | ±5% | GRM2192C1H103JA01# |
| | | | 12000pF | ±5% | GRM2192C1H123JA01# |
| | | | 15000pF | ±5% | GRM2192C1H153JA01# |
| | | SL | 22000pF | ±5% | GRM2191X1H223JA01# |
| | | | 27000pF | ±5% | GRM2191X1H273JA01# |
| | | U2J | 22000pF | ±5% | GRM2197U1H223JA01# |
| | | | 27000pF | ±5% | GRM2197U1H273JA01# |
| | | UJ | 22000pF | ±5% | GRM2193U1H223JA01# |
| | | | 27000pF | ±5% | GRM2193U1H273JA01# |
| | 10Vdc | SL | 56000pF | ±5% | GRM2191X1A563JA01# |
| | | U2J | 56000pF | ±5% | GRM2197U1A563JA01# |
| | | UJ | 56000pF | ±5% | GRM2193U1A563JA01# |
| 1.0mm | 630Vdc | C0G | 10pF | ±5% | GRM21A5C2J100JWA1# |
| | | | 12pF | ±5% | GRM21A5C2J120JWA1# |
| | | | 15pF | ±5% | GRM21A5C2J150JWA1# |
| | | | 18pF | ±5% | GRM21A5C2J180JWA1# |
| | | | 22pF | ±5% | GRM21A5C2J220JWA1# |
| | | | 27pF | ±5% | GRM21A5C2J270JWA1# |
| | | | 33pF | ±5% | GRM21A5C2J330JWA1# |
| | | | 39pF | ±5% | GRM21A5C2J390JWA1# |
| | | | 47pF | ±5% | GRM21A5C2J470JWA1# |
| | | | 56pF | ±5% | GRM21A5C2J560JWA1# |
| | | | 68pF | ±5% | GRM21A5C2J680JWA1# |
| | | | 82pF | ±5% | GRM21A5C2J820JWA1# |
| | | | 100pF | ±5% | GRM21A5C2J101JWA1# |
| | | | 120pF | ±5% | GRM21A5C2J121JWA1# |
| | | | 150pF | ±5% | GRM21A5C2J151JWA1# |
| | | | 180pF | ±5% | GRM21A5C2J181JWA1# |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number |
|---|---|---|---|---|---|
| 1.0mm | 630Vdc | C0G | 220pF | ±5% | GRM21A5C2J221JWA1# |
| | | | 270pF | ±5% | GRM21A5C2J271JWA1# |
| | | | 330pF | ±5% | GRM21A5C2J331JWA1# |
| | | | 390pF | ±5% | GRM21A5C2J391JWA1# |
| | | | 470pF | ±5% | GRM21A5C2J471JWA1# |
| | | | 560pF | ±5% | GRM21A5C2J561JWA1# |
| | 250Vdc | C0G | 10pF | ±5% | GRM21A5C2E100JW01# |
| | | | 12pF | ±5% | GRM21A5C2E120JW01# |
| | | | 15pF | ±5% | GRM21A5C2E150JW01# |
| | | | 18pF | ±5% | GRM21A5C2E180JW01# |
| | | | 22pF | ±5% | GRM21A5C2E220JW01# |
| | | | 27pF | ±5% | GRM21A5C2E270JW01# |
| | | | 33pF | ±5% | GRM21A5C2E330JW01# |
| | | | 39pF | ±5% | GRM21A5C2E390JW01# |
| | | | 47pF | ±5% | GRM21A5C2E470JW01# |
| | | | 56pF | ±5% | GRM21A5C2E560JW01# |
| | | | 68pF | ±5% | GRM21A5C2E680JW01# |
| | | | 82pF | ±5% | GRM21A5C2E820JW01# |
| | | | 100pF | ±5% | GRM21A5C2E101JW01# |
| | | | 120pF | ±5% | GRM21A5C2E121JW01# |
| | | | 150pF | ±5% | GRM21A5C2E151JW01# |
| | | | 180pF | ±5% | GRM21A5C2E181JW01# |
| | | | 220pF | ±5% | GRM21A5C2E221JW01# |
| | | | 270pF | ±5% | GRM21A5C2E271JW01# |
| | | | 330pF | ±5% | GRM21A5C2E331JW01# |
| | | | 390pF | ±5% | GRM21A5C2E391JWA1# |
| | | | 470pF | ±5% | GRM21A5C2E471JWA1# |
| | | | 560pF | ±5% | GRM21A5C2E561JWA1# |
| | | | 680pF | ±5% | GRM21A5C2E681JWA1# |
| | | | 820pF | ±5% | GRM21A5C2E821JWA1# |
| | | | 1000pF | ±5% | GRM21A5C2E102JWA1# |
| | | | 1200pF | ±5% | GRM21A5C2E122JWA1# |
| | | | 1500pF | ±5% | GRM21A5C2E152JWA1# |
| | | | 1800pF | ±5% | GRM21A5C2E182JWA1# |
| | | | 2200pF | ±5% | GRM21A5C2E222JWA1# |
| | | | 2700pF | ±5% | GRM21A5C2E272JWA1# |
| | | U2J | 100pF | ±5% | GRM21A7U2E101JW31# |
| | | | 120pF | ±5% | GRM21A7U2E121JW31# |
| | | | 150pF | ±5% | GRM21A7U2E151JW31# |
| | | | 180pF | ±5% | GRM21A7U2E181JW31# |
| | | | 220pF | ±5% | GRM21A7U2E221JW31# |
| | | | 270pF | ±5% | GRM21A7U2E271JW31# |
| | | | 330pF | ±5% | GRM21A7U2E331JW31# |
| | | | 390pF | ±5% | GRM21A7U2E391JW31# |
| | | | 470pF | ±5% | GRM21A7U2E471JW31# |
| | | | 560pF | ±5% | GRM21A7U2E561JW31# |
| | | | 680pF | ±5% | GRM21A7U2E681JW31# |
| | | | 820pF | ±5% | GRM21A7U2E821JW31# |
| | | | 1000pF | ±5% | GRM21A7U2E102JW31# |
| | | | 1200pF | ±5% | GRM21A7U2E122JW31# |
| | | | 1500pF | ±5% | GRM21A7U2E152JW31# |
| | | | 1800pF | ±5% | GRM21A7U2E182JW31# |
| | | | 2200pF | ±5% | GRM21A7U2E222JW31# |
| | 200Vdc | C0G | 10pF | ±5% | GRM21A5C2D100JW01# |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

## (→ 2.0×1.25mm)

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 1.0mm | 200Vdc | C0G | 12pF | ±5% | GRM21A5C2D120JW01# | |
| | | | 15pF | ±5% | GRM21A5C2D150JW01# | |
| | | | 18pF | ±5% | GRM21A5C2D180JW01# | |
| | | | 22pF | ±5% | GRM21A5C2D220JW01# | |
| | | | 27pF | ±5% | GRM21A5C2D270JW01# | |
| | | | 33pF | ±5% | GRM21A5C2D330JW01# | |
| | | | 39pF | ±5% | GRM21A5C2D390JW01# | |
| | | | 47pF | ±5% | GRM21A5C2D470JW01# | |
| | | | 56pF | ±5% | GRM21A5C2D560JW01# | |
| | | | 68pF | ±5% | GRM21A5C2D680JW01# | |
| | | | 82pF | ±5% | GRM21A5C2D820JW01# | |
| | | | 100pF | ±5% | GRM21A5C2D101JW01# | |
| | | | 120pF | ±5% | GRM21A5C2D121JW01# | |
| | | | 150pF | ±5% | GRM21A5C2D151JW01# | |
| | | | 180pF | ±5% | GRM21A5C2D181JW01# | |
| | | | 220pF | ±5% | GRM21A5C2D221JW01# | |
| | | | 270pF | ±5% | GRM21A5C2D271JW01# | |
| | | | 330pF | ±5% | GRM21A5C2D331JW01# | |
| | | U2J | 100pF | ±5% | GRM21A7U2D101JW31# | |
| | | | 120pF | ±5% | GRM21A7U2D121JW31# | |
| | | | 150pF | ±5% | GRM21A7U2D151JW31# | |
| | | | 180pF | ±5% | GRM21A7U2D181JW31# | |
| | | | 220pF | ±5% | GRM21A7U2D221JW31# | |
| | | | 270pF | ±5% | GRM21A7U2D271JW31# | |
| | | | 330pF | ±5% | GRM21A7U2D331JW31# | |
| | | | 390pF | ±5% | GRM21A7U2D391JW31# | |
| | | | 470pF | ±5% | GRM21A7U2D471JW31# | |
| | | | 560pF | ±5% | GRM21A7U2D561JW31# | |
| | | | 680pF | ±5% | GRM21A7U2D681JW31# | |
| | | | 820pF | ±5% | GRM21A7U2D821JW31# | |
| | | | 1000pF | ±5% | GRM21A7U2D102JW31# | |
| | | | 1200pF | ±5% | GRM21A7U2D122JW31# | |
| | | | 1500pF | ±5% | GRM21A7U2D152JW31# | |
| | | | 1800pF | ±5% | GRM21A7U2D182JW31# | |
| | | | 2200pF | ±5% | GRM21A7U2D222JW31# | |
| | 50Vdc | SL | 33000pF | ±5% | GRM21A1X1H333JA39# | |
| | | U2J | 33000pF | ±5% | GRM21A7U1H333JA39# | |
| | | UJ | 33000pF | ±5% | GRM21A3U1H333JA39# | |
| 1.35mm | 50Vdc | C0G | 18000pF | ±5% | GRM21B5C1H183JA01# | |
| | | | 22000pF | ±5% | GRM21B5C1H223JA01# | |
| | | CH | 18000pF | ±5% | GRM21B2C1H183JA01# | |
| | | | 22000pF | ±5% | GRM21B2C1H223JA01# | |
| | | SL | 39000pF | ±5% | GRM21B1X1H393JA01# | |
| | | | 47000pF | ±5% | GRM21B1X1H473JA01# | |
| | | U2J | 39000pF | ±5% | GRM21B7U1H393JA01# | |
| | | | 47000pF | ±5% | GRM21B7U1H473JA01# | |
| | | UJ | 39000pF | ±5% | GRM21B3U1H393JA01# | |
| | | | 47000pF | ±5% | GRM21B3U1H473JA01# | |
| | 10Vdc | SL | 68000pF | ±5% | GRM21B1X1A683JA01# | |
| | | | 82000pF | ±5% | GRM21B1X1A823JA01# | |
| | | | 0.10μF | ±5% | GRM21B1X1A104JA01# | |
| | | U2J | 68000pF | ±5% | GRM21B7U1A683JA01# | |
| | | | 82000pF | ±5% | GRM21B7U1A823JA01# | |
| | | | 0.10μF | ±5% | GRM21B7U1A104JA01# | |
| 1.35mm | 10Vdc | UJ | 68000pF | ±5% | GRM21B3U1A683JA01# | |
| | | | 82000pF | ±5% | GRM21B3U1A823JA01# | |
| | | | 0.10μF | ±5% | GRM21B3U1A104JA01# | |
| 1.45mm | 630Vdc | C0G | 680pF | ±5% | GRM21B5C2J681JWA3# | |
| | | | 820pF | ±5% | GRM21B5C2J821JWA3# | |
| | | | 1000pF | ±5% | GRM21B5C2J102JWA3# | |
| | | | 1200pF | ±5% | GRM21B5C2J122JWA3# | |
| | 250Vdc | C0G | 3300pF | ±5% | GRM21B5C2E332JWA1# | |
| | | | 3900pF | ±5% | GRM21B5C2E392JWA1# | |
| | | | 4700pF | ±5% | GRM21B5C2E472JWA1# | |
| | | U2J | 2700pF | ±5% | GRM21B7U2E272JW32# | |
| | | | 3300pF | ±5% | GRM21B7U2E332JW32# | |
| | | | 3900pF | ±5% | GRM21B7U2E392JW32# | |
| | | | 4700pF | ±5% | GRM21B7U2E472JW32# | |
| | | | 5600pF | ±5% | GRM21B7U2E562JW32# | |
| | 200Vdc | U2J | 2700pF | ±5% | GRM21B7U2D272JW32# | |
| | | | 3300pF | ±5% | GRM21B7U2D332JW32# | |
| | | | 3900pF | ±5% | GRM21B7U2D392JW32# | |
| | | | 4700pF | ±5% | GRM21B7U2D472JW32# | |
| | | | 5600pF | ±5% | GRM21B7U2D562JW32# | |

## 3.2×1.6mm

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.95mm | 100Vdc | C0G | 1800pF | ±5% | GRM3195C2A182JA01# | |
| | | | 2200pF | ±5% | GRM3195C2A222JA01# | |
| | | | 2700pF | ±5% | GRM3195C2A272JA01# | |
| | | | 3300pF | ±5% | GRM3195C2A332JA01# | |
| | | | 3900pF | ±5% | GRM3195C2A392JA01# | |
| | | | 4700pF | ±5% | GRM3195C2A472JA01# | |
| | | | 5600pF | ±5% | GRM3195C2A562JA01# | |
| | | | 6800pF | ±5% | GRM3195C2A682JA01# | |
| | | | 8200pF | ±5% | GRM3195C2A822JA01# | |
| | | | 10000pF | ±5% | GRM3195C2A103JA01# | |
| | | | 12000pF | ±5% | GRM3195C2A123JA01# | |
| | | | 15000pF | ±5% | GRM3195C2A153JA01# | |
| | | | 18000pF | ±5% | GRM3195C2A183JA01# | |
| | | | 22000pF | ±5% | GRM3195C2A223JA01# | |
| | | | 27000pF | ±5% | GRM3195C2A273JA01# | D1 |
| | | | 33000pF | ±5% | GRM3195C2A333JA01# | D1 |
| | | | 39000pF | ±5% | GRM3195C2A393JA01# | D1 |
| | | CH | 1800pF | ±5% | GRM3192C2A182JA01# | |
| | | | 2200pF | ±5% | GRM3192C2A222JA01# | |
| | | | 2700pF | ±5% | GRM3192C2A272JA01# | |
| | | | 3300pF | ±5% | GRM3192C2A332JA01# | |
| | | | 3900pF | ±5% | GRM3192C2A392JA01# | |
| | | | 4700pF | ±5% | GRM3192C2A472JA01# | |
| | | | 5600pF | ±5% | GRM3192C2A562JA01# | |
| | | | 6800pF | ±5% | GRM3192C2A682JA01# | |
| | | | 8200pF | ±5% | GRM3192C2A822JA01# | |
| | | | 10000pF | ±5% | GRM3192C2A103JA01# | |
| | | | 12000pF | ±5% | GRM3192C2A123JA01# | |
| | | | 15000pF | ±5% | GRM3192C2A153JA01# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 3.2×1.6mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 0.95mm | 100Vdc | CH | 18000pF | ±5% | GRM3192C2A183JA01# | |
| | | | 22000pF | ±5% | GRM3192C2A223JA01# | |
| | | | 27000pF | ±5% | GRM3192C2A273JA01# | D1 |
| | | | 33000pF | ±5% | GRM3192C2A333JA01# | D1 |
| | | | 39000pF | ±5% | GRM3192C2A393JA01# | D1 |
| | 50Vdc | C0G | 12000pF | ±5% | GRM3195C1H123JA01# | |
| | | | 15000pF | ±5% | GRM3195C1H153JA01# | |
| | | | 18000pF | ±5% | GRM3195C1H183JA01# | |
| | | | 22000pF | ±5% | GRM3195C1H223JA01# | |
| | | | 27000pF | ±5% | GRM3195C1H273JA01# | |
| | | | 33000pF | ±5% | GRM3195C1H333JA01# | |
| | | | 39000pF | ±5% | GRM3195C1H393JA01# | |
| | | CH | 12000pF | ±5% | GRM3192C1H123JA01# | |
| | | | 15000pF | ±5% | GRM3192C1H153JA01# | |
| | | | 18000pF | ±5% | GRM3192C1H183JA01# | |
| | | | 22000pF | ±5% | GRM3192C1H223JA01# | |
| | | | 27000pF | ±5% | GRM3192C1H273JA01# | |
| | | | 33000pF | ±5% | GRM3192C1H333JA01# | |
| | | | 39000pF | ±5% | GRM3192C1H393JA01# | |
| | | SL | 56000pF | ±5% | GRM3191X1H563JA01# | |
| | | U2J | 56000pF | ±5% | GRM3197U1H563JA01# | |
| | | UJ | 56000pF | ±5% | GRM3193U1H563JA01# | |
| 1.0mm | 2000Vdc | U2J | 10pF | ±5% | GRM31A7U3D100JW31# | |
| | | | 12pF | ±5% | GRM31A7U3D120JW31# | |
| | | | 15pF | ±5% | GRM31A7U3D150JW31# | |
| | | | 18pF | ±5% | GRM31A7U3D180JW31# | |
| | | | 22pF | ±5% | GRM31A7U3D220JW31# | |
| | | | 27pF | ±5% | GRM31A7U3D270JW31# | |
| | | | 33pF | ±5% | GRM31A7U3D330JW31# | |
| | | | 39pF | ±5% | GRM31A7U3D390JW31# | |
| | | | 47pF | ±5% | GRM31A7U3D470JW31# | |
| | | | 56pF | ±5% | GRM31A7U3D560JW31# | |
| | | | 68pF | ±5% | GRM31A7U3D680JW31# | |
| | 1000Vdc | C0G | 10pF | ±5% | GRM31A5C3A100JW01# | |
| | | | 12pF | ±5% | GRM31A5C3A120JW01# | |
| | | | 15pF | ±5% | GRM31A5C3A150JW01# | |
| | | | 18pF | ±5% | GRM31A5C3A180JW01# | |
| | | | 22pF | ±5% | GRM31A5C3A220JW01# | |
| | | | 27pF | ±5% | GRM31A5C3A270JW01# | |
| | | | 33pF | ±5% | GRM31A5C3A330JW01# | |
| | | | 39pF | ±5% | GRM31A5C3A390JW01# | |
| | | | 47pF | ±5% | GRM31A5C3A470JW01# | |
| | | | 56pF | ±5% | GRM31A5C3A560JW01# | |
| | | | 68pF | ±5% | GRM31A5C3A680JW01# | |
| | | | 82pF | ±5% | GRM31A5C3A820JW01# | |
| | | | 100pF | ±5% | GRM31A5C3A101JW01# | |
| | | | 120pF | ±5% | GRM31A5C3A121JW01# | |
| | | | 150pF | ±5% | GRM31A5C3A151JW01# | |
| | | | 180pF | ±5% | GRM31A5C3A181JW01# | |
| | | | 220pF | ±5% | GRM31A5C3A221JW01# | |
| | | | 270pF | ±5% | GRM31A5C3A271JWA1# | |
| | | | 330pF | ±5% | GRM31A5C3A331JWA1# | |
| | | | 390pF | ±5% | GRM31A5C3A391JWA1# | |
| | | | 470pF | ±5% | GRM31A5C3A471JWA1# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 1.0mm | 1000Vdc | U2J | 10pF | ±5% | GRM31A7U3A100JW31# | |
| | | | 12pF | ±5% | GRM31A7U3A120JW31# | |
| | | | 15pF | ±5% | GRM31A7U3A150JW31# | |
| | | | 18pF | ±5% | GRM31A7U3A180JW31# | |
| | | | 22pF | ±5% | GRM31A7U3A220JW31# | |
| | | | 27pF | ±5% | GRM31A7U3A270JW31# | |
| | | | 33pF | ±5% | GRM31A7U3A330JW31# | |
| | | | 39pF | ±5% | GRM31A7U3A390JW31# | |
| | | | 47pF | ±5% | GRM31A7U3A470JW31# | |
| | | | 56pF | ±5% | GRM31A7U3A560JW31# | |
| | | | 68pF | ±5% | GRM31A7U3A680JW31# | |
| | | | 82pF | ±5% | GRM31A7U3A820JW31# | |
| | | | 100pF | ±5% | GRM31A7U3A101JW31# | |
| | | | 120pF | ±5% | GRM31A7U3A121JW31# | |
| | | | 150pF | ±5% | GRM31A7U3A151JW31# | |
| | | | 180pF | ±5% | GRM31A7U3A181JW31# | |
| | | | 220pF | ±5% | GRM31A7U3A221JW31# | |
| | | | 270pF | ±5% | GRM31A7U3A271JW31# | |
| | | | 330pF | ±5% | GRM31A7U3A331JW31# | |
| | 630Vdc | C0G | 10pF | ±5% | GRM31A5C2J100JW01# | |
| | | | 12pF | ±5% | GRM31A5C2J120JW01# | |
| | | | 15pF | ±5% | GRM31A5C2J150JW01# | |
| | | | 18pF | ±5% | GRM31A5C2J180JW01# | |
| | | | 22pF | ±5% | GRM31A5C2J220JW01# | |
| | | | 27pF | ±5% | GRM31A5C2J270JW01# | |
| | | | 33pF | ±5% | GRM31A5C2J330JW01# | |
| | | | 39pF | ±5% | GRM31A5C2J390JW01# | |
| | | | 47pF | ±5% | GRM31A5C2J470JW01# | |
| | | | 56pF | ±5% | GRM31A5C2J560JW01# | |
| | | | 68pF | ±5% | GRM31A5C2J680JW01# | |
| | | | 82pF | ±5% | GRM31A5C2J820JW01# | |
| | | | 100pF | ±5% | GRM31A5C2J101JW01# | |
| | | | 120pF | ±5% | GRM31A5C2J121JW01# | |
| | | | 150pF | ±5% | GRM31A5C2J151JW01# | |
| | | | 180pF | ±5% | GRM31A5C2J181JW01# | |
| | | | 220pF | ±5% | GRM31A5C2J221JW01# | |
| | | | 270pF | ±5% | GRM31A5C2J271JW01# | |
| | | | 330pF | ±5% | GRM31A5C2J331JW01# | |
| | | | 390pF | ±5% | GRM31A5C2J391JW01# | |
| | | | 470pF | ±5% | GRM31A5C2J471JW01# | |
| | | | 560pF | ±5% | GRM31A5C2J561JW01# | |
| | | | 1200pF | ±5% | GRM31A5C2J122JWA1# | |
| | | | 1500pF | ±5% | GRM31A5C2J152JWA1# | |
| | | | 1800pF | ±5% | GRM31A5C2J182JWA1# | |
| | | U2J | 10pF | ±5% | GRM31A7U2J100JW31# | |
| | | | 12pF | ±5% | GRM31A7U2J120JW31# | |
| | | | 15pF | ±5% | GRM31A7U2J150JW31# | |
| | | | 18pF | ±5% | GRM31A7U2J180JW31# | |
| | | | 22pF | ±5% | GRM31A7U2J220JW31# | |
| | | | 27pF | ±5% | GRM31A7U2J270JW31# | |
| | | | 33pF | ±5% | GRM31A7U2J330JW31# | |
| | | | 39pF | ±5% | GRM31A7U2J390JW31# | |
| | | | 47pF | ±5% | GRM31A7U2J470JW31# | |
| | | | 56pF | ±5% | GRM31A7U2J560JW31# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 3.2×1.6mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 1.0mm | 630Vdc | U2J | 68pF | ±5% | **GRM31A7U2J680JW31#** | |
| | | | 82pF | ±5% | **GRM31A7U2J820JW31#** | |
| | | | 100pF | ±5% | **GRM31A7U2J101JW31#** | |
| | | | 120pF | ±5% | **GRM31A7U2J121JW31#** | |
| | | | 150pF | ±5% | **GRM31A7U2J151JW31#** | |
| | | | 180pF | ±5% | **GRM31A7U2J181JW31#** | |
| | | | 220pF | ±5% | **GRM31A7U2J221JW31#** | |
| | | | 270pF | ±5% | **GRM31A7U2J271JW31#** | |
| | | | 330pF | ±5% | **GRM31A7U2J331JW31#** | |
| | | | 390pF | ±5% | **GRM31A7U2J391JW31#** | |
| | | | 470pF | ±5% | **GRM31A7U2J471JW31#** | |
| | | | 560pF | ±5% | **GRM31A7U2J561JW31#** | |
| | | | 680pF | ±5% | **GRM31A7U2J681JW31#** | |
| | | | 820pF | ±5% | **GRM31A7U2J821JW31#** | |
| | | | 1000pF | ±5% | **GRM31A7U2J102JW31#** | |
| | | | 1200pF | ±5% | **GRM31A7U2J122JW31#** | |
| | | | 1500pF | ±5% | **GRM31A7U2J152JW31#** | |
| | | | 1800pF | ±5% | **GRM31A7U2J182JW31#** | |
| | | | 2200pF | ±5% | **GRM31A7U2J222JW31#** | |
| | 500Vdc | C0G | 10pF | ±5% | **GRM31A5C2H100JW01#** | |
| | | | 12pF | ±5% | **GRM31A5C2H120JW01#** | |
| | | | 15pF | ±5% | **GRM31A5C2H150JW01#** | |
| | | | 18pF | ±5% | **GRM31A5C2H180JW01#** | |
| | | | 22pF | ±5% | **GRM31A5C2H220JW01#** | |
| | | | 27pF | ±5% | **GRM31A5C2H270JW01#** | |
| | | | 33pF | ±5% | **GRM31A5C2H330JW01#** | |
| | | | 39pF | ±5% | **GRM31A5C2H390JW01#** | |
| | | | 47pF | ±5% | **GRM31A5C2H470JW01#** | |
| | | | 56pF | ±5% | **GRM31A5C2H560JW01#** | |
| | | | 68pF | ±5% | **GRM31A5C2H680JW01#** | |
| | | | 82pF | ±5% | **GRM31A5C2H820JW01#** | |
| | | | 100pF | ±5% | **GRM31A5C2H101JW01#** | |
| | | | 120pF | ±5% | **GRM31A5C2H121JW01#** | |
| | | | 150pF | ±5% | **GRM31A5C2H151JW01#** | |
| | | | 180pF | ±5% | **GRM31A5C2H181JW01#** | |
| | | | 220pF | ±5% | **GRM31A5C2H221JW01#** | |
| | | | 270pF | ±5% | **GRM31A5C2H271JW01#** | |
| | | | 330pF | ±5% | **GRM31A5C2H331JW01#** | |
| | | | 390pF | ±5% | **GRM31A5C2H391JW01#** | |
| | | | 470pF | ±5% | **GRM31A5C2H471JW01#** | |
| | | | 560pF | ±5% | **GRM31A5C2H561JW01#** | |
| | | U2J | 10pF | ±5% | **GRM31A7U2H100JW31#** | |
| | | | 12pF | ±5% | **GRM31A7U2H120JW31#** | |
| | | | 15pF | ±5% | **GRM31A7U2H150JW31#** | |
| | | | 18pF | ±5% | **GRM31A7U2H180JW31#** | |
| | | | 22pF | ±5% | **GRM31A7U2H220JW31#** | |
| | | | 27pF | ±5% | **GRM31A7U2H270JW31#** | |
| | | | 33pF | ±5% | **GRM31A7U2H330JW31#** | |
| | | | 39pF | ±5% | **GRM31A7U2H390JW31#** | |
| | | | 47pF | ±5% | **GRM31A7U2H470JW31#** | |
| | | | 56pF | ±5% | **GRM31A7U2H560JW31#** | |
| | | | 68pF | ±5% | **GRM31A7U2H680JW31#** | |
| | | | 82pF | ±5% | **GRM31A7U2H820JW31#** | |
| | | | 100pF | ±5% | **GRM31A7U2H101JW31#** | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 1.0mm | 500Vdc | U2J | 120pF | ±5% | **GRM31A7U2H121JW31#** | |
| | | | 150pF | ±5% | **GRM31A7U2H151JW31#** | |
| | | | 180pF | ±5% | **GRM31A7U2H181JW31#** | |
| | | | 220pF | ±5% | **GRM31A7U2H221JW31#** | |
| | | | 270pF | ±5% | **GRM31A7U2H271JW31#** | |
| | | | 330pF | ±5% | **GRM31A7U2H331JW31#** | |
| | | | 390pF | ±5% | **GRM31A7U2H391JW31#** | |
| | | | 470pF | ±5% | **GRM31A7U2H471JW31#** | |
| | | | 560pF | ±5% | **GRM31A7U2H561JW31#** | |
| | | | 680pF | ±5% | **GRM31A7U2H681JW31#** | |
| | | | 820pF | ±5% | **GRM31A7U2H821JW31#** | |
| | | | 1000pF | ±5% | **GRM31A7U2H102JW31#** | |
| | | | 1200pF | ±5% | **GRM31A7U2H122JW31#** | |
| | | | 1500pF | ±5% | **GRM31A7U2H152JW31#** | |
| | | | 1800pF | ±5% | **GRM31A7U2H182JW31#** | |
| | | | 2200pF | ±5% | **GRM31A7U2H222JW31#** | |
| | 250Vdc | C0G | 390pF | ±5% | **GRM31A5C2E391JWA1#** | |
| | | | 470pF | ±5% | **GRM31A5C2E471JWA1#** | |
| | | | 560pF | ±5% | **GRM31A5C2E561JWA1#** | |
| | | | 680pF | ±5% | **GRM31A5C2E681JWA1#** | |
| | | | 820pF | ±5% | **GRM31A5C2E821JWA1#** | |
| | | | 1000pF | ±5% | **GRM31A5C2E102JWA1#** | |
| | | | 1200pF | ±5% | **GRM31A5C2E122JWA1#** | |
| | | | 1500pF | ±5% | **GRM31A5C2E152JWA1#** | |
| | | | 1800pF | ±5% | **GRM31A5C2E182JWA1#** | |
| | | | 2200pF | ±5% | **GRM31A5C2E222JWA1#** | |
| | | | 2700pF | ±5% | **GRM31A5C2E272JWA1#** | |
| | | | 3300pF | ±5% | **GRM31A5C2E332JWA1#** | |
| | | | 3900pF | ±5% | **GRM31A5C2E392JWA1#** | |
| | | | 4700pF | ±5% | **GRM31A5C2E472JWA1#** | |
| | | | 5600pF | ±5% | **GRM31A5C2E562JWA1#** | |
| | | | 6800pF | ±5% | **GRM31A5C2E682JWA1#** | |
| | | U2J | 2700pF | ±5% | **GRM31A7U2E272JW31#** | |
| | | | 3300pF | ±5% | **GRM31A7U2E332JW31#** | |
| | | | 3900pF | ±5% | **GRM31A7U2E392JW31#** | |
| | | | 4700pF | ±5% | **GRM31A7U2E472JW31#** | |
| | | | 5600pF | ±5% | **GRM31A7U2E562JW31#** | |
| | 200Vdc | U2J | 2700pF | ±5% | **GRM31A7U2D272JW31#** | |
| | | | 3300pF | ±5% | **GRM31A7U2D332JW31#** | |
| | | | 3900pF | ±5% | **GRM31A7U2D392JW31#** | |
| | | | 4700pF | ±5% | **GRM31A7U2D472JW31#** | |
| | | | 5600pF | ±5% | **GRM31A7U2D562JW31#** | |
| 1.25mm | 1000Vdc | C0G | 560pF | ±5% | **GRM31B5C3A561JWA1#** | |
| | | | 680pF | ±5% | **GRM31B5C3A681JWA1#** | |
| | | U2J | 390pF | ±5% | **GRM31B7U3A391JW31#** | |
| | | | 470pF | ±5% | **GRM31B7U3A471JW31#** | |
| | | | 560pF | ±5% | **GRM31B7U3A561JW31#** | |
| | | | 680pF | ±5% | **GRM31B7U3A681JW31#** | |
| | 630Vdc | C0G | 680pF | ±5% | **GRM31B5C2J681JW01#** | |
| | | | 820pF | ±5% | **GRM31B5C2J821JW01#** | |
| | | | 1000pF | ±5% | **GRM31B5C2J102JW01#** | |
| | | | 2200pF | ±5% | **GRM31B5C2J222JWA1#** | |
| | | | 2700pF | ±5% | **GRM31B5C2J272JWA1#** | |
| | | U2J | 2700pF | ±5% | **GRM31B7U2J272JW31#** | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 3.2×1.6mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 1.25mm | 630Vdc | U2J | 3300pF | ±5% | GRM31B7U2J332JW31# | |
| | 500Vdc | C0G | 680pF | ±5% | GRM31B5C2H681JW01# | |
| | | | 820pF | ±5% | GRM31B5C2H821JW01# | |
| | | | 1000pF | ±5% | GRM31B5C2H102JW01# | |
| | | U2J | 2700pF | ±5% | GRM31B7U2H272JW31# | |
| | | | 3300pF | ±5% | GRM31B7U2H332JW31# | |
| | 250Vdc | C0G | 8200pF | ±5% | GRM31B5C2E822JWA1# | |
| | | | 10000pF | ±5% | GRM31B5C2E103JWA1# | |
| | | | 12000pF | ±5% | GRM31B5C2E123JWA1# | |
| | | U2J | 6800pF | ±5% | GRM31B7U2E682JW31# | |
| | | | 8200pF | ±5% | GRM31B7U2E822JW31# | |
| | | | 10000pF | ±5% | GRM31B7U2E103JW31# | |
| | | | 12000pF | ±5% | GRM31B7U2E123JW31# | |
| | 200Vdc | U2J | 6800pF | ±5% | GRM31B7U2D682JW31# | |
| | | | 8200pF | ±5% | GRM31B7U2D822JW31# | |
| | | | 10000pF | ±5% | GRM31B7U2D103JW31# | |
| | 100Vdc | C0G | 47000pF | ±5% | GRM31M5C2A473JA01# | D1 |
| | | | 56000pF | ±5% | GRM31M5C2A563JA01# | D1 |
| | | CH | 47000pF | ±5% | GRM31M2C2A473JA01# | D1 |
| | | | 56000pF | ±5% | GRM31M2C2A563JA01# | D1 |
| | 50Vdc | C0G | 47000pF | ±5% | GRM31M5C1H473JA01# | |
| | | | 56000pF | ±5% | GRM31M5C1H563JA01# | |
| | | CH | 47000pF | ±5% | GRM31M2C1H473JA01# | |
| | | | 56000pF | ±5% | GRM31M2C1H563JA01# | |
| | | SL | 68000pF | ±5% | GRM31M1X1H683JA01# | |
| | | | 82000pF | ±5% | GRM31M1X1H823JA01# | |
| | | | 0.10μF | ±5% | GRM31M1X1H104JA01# | |
| | | U2J | 68000pF | ±5% | GRM31M7U1H683JA01# | |
| | | | 82000pF | ±5% | GRM31M7U1H823JA01# | |
| | | | 0.10μF | ±5% | GRM31M7U1H104JA01# | |
| | | UJ | 68000pF | ±5% | GRM31M3U1H683JA01# | |
| | | | 82000pF | ±5% | GRM31M3U1H823JA01# | |
| | | | 0.10μF | ±5% | GRM31M3U1H104JA01# | |
| 1.8mm | 1000Vdc | C0G | 820pF | ±5% | GRM31C5C3A821JWA3# | |
| | | | 1000pF | ±5% | GRM31C5C3A102JWA3# | |
| | | U2J | 820pF | ±5% | GRM31C7U3A821JW32# | |
| | | | 1000pF | ±5% | GRM31C7U3A102JW32# | |
| | 630Vdc | C0G | 3300pF | ±5% | GRM31C5C2J332JWA3# | |
| | | U2J | 3900pF | ±5% | GRM31C7U2J392JW32# | |
| | | | 4700pF | ±5% | GRM31C7U2J472JW32# | |
| | 500Vdc | U2J | 3900pF | ±5% | GRM31C7U2H392JW32# | |
| | | | 4700pF | ±5% | GRM31C7U2H472JW32# | |
| | 250Vdc | C0G | 15000pF | ±5% | GRM31C5C2E153JWA3# | |
| | | U2J | 15000pF | ±5% | GRM31C7U2E153JW32# | |
| | | | 18000pF | ±5% | GRM31C7U2E183JW32# | |
| | | | 22000pF | ±5% | GRM31C7U2E223JW32# | |
| | 100Vdc | C0G | 68000pF | ±5% | GRM31C5C2A683JA01# | D1 |
| | | | 82000pF | ±5% | GRM31C5C2A823JA01# | D1 |
| | | | 0.10μF | ±5% | GRM31C5C2A104JA01# | D1 |
| | | CH | 68000pF | ±5% | GRM31C2C2A683JA01# | D1 |
| | | | 82000pF | ±5% | GRM31C2C2A823JA01# | D1 |
| | | | 0.10μF | ±5% | GRM31C2C2A104JA01# | D1 |
| | 50Vdc | C0G | 68000pF | ±5% | GRM31C5C1H683JA01# | |
| | | | 82000pF | ±5% | GRM31C5C1H823JA01# | |

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 1.8mm | 50Vdc | C0G | 0.10μF | ±5% | GRM31C5C1H104JA01# | |
| | | CH | 68000pF | ±5% | GRM31C2C1H683JA01# | |
| | | | 82000pF | ±5% | GRM31C2C1H823JA01# | |
| | | | 0.10μF | ±5% | GRM31C2C1H104JA01# | |
| | 25Vdc | C0G | 0.12μF | ±5% | GRM31C5C1E124JA01# | |
| | | CH | 0.12μF | ±5% | GRM31C2C1E124JA01# | |
| | 16Vdc | C0G | 0.12μF | ±5% | GRM31C5C1C124JA01# | |
| | | CH | 0.12μF | ±5% | GRM31C2C1C124JA01# | |

### 3.2×2.5mm

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 1.0mm | 2000Vdc | U2J | 82pF | ±5% | GRM32A7U3D820JW31# | |
| | | | 100pF | ±5% | GRM32A7U3D101JW31# | |
| | | | 120pF | ±5% | GRM32A7U3D121JW31# | |
| | | | 150pF | ±5% | GRM32A7U3D151JW31# | |
| | 630Vdc | U2J | 1200pF | ±5% | GRM32A7U2J122JW31# | |
| | | | 1500pF | ±5% | GRM32A7U2J152JW31# | |
| | | | 1800pF | ±5% | GRM32A7U2J182JW31# | |
| | | | 2200pF | ±5% | GRM32A7U2J222JW31# | |
| | 500Vdc | U2J | 1200pF | ±5% | GRM32A7U2H122JW31# | |
| | | | 1500pF | ±5% | GRM32A7U2H152JW31# | |
| | | | 1800pF | ±5% | GRM32A7U2H182JW31# | |
| | | | 2200pF | ±5% | GRM32A7U2H222JW31# | |
| 1.25mm | 2000Vdc | U2J | 180pF | ±5% | GRM32B7U3D181JW31# | |
| | | | 220pF | ±5% | GRM32B7U3D221JW31# | |
| | 1000Vdc | U2J | 1200pF | ±5% | GRM32B7U3A122JW31# | |
| | 630Vdc | U2J | 5600pF | ±5% | GRM32B7U2J562JW31# | |
| | 500Vdc | U2J | 5600pF | ±5% | GRM32B7U2H562JW31# | |
| 1.5mm | 1000Vdc | U2J | 1500pF | ±5% | GRM32Q7U3A152JW31# | |
| | 630Vdc | U2J | 6800pF | ±5% | GRM32Q7U2J682JW31# | |
| | 500Vdc | U2J | 6800pF | ±5% | GRM32Q7U2H682JW31# | |
| | 250Vdc | U2J | 27000pF | ±5% | GRM32Q7U2E273JW31# | |
| 2.0mm | 1000Vdc | U2J | 1800pF | ±5% | GRM32D7U3A182JW31# | |
| | | | 2200pF | ±5% | GRM32D7U3A222JW31# | |
| | 630Vdc | U2J | 8200pF | ±5% | GRM32D7U2J822JW31# | |
| | | | 10000pF | ±5% | GRM32D7U2J103JW31# | |
| | 500Vdc | U2J | 8200pF | ±5% | GRM32D7U2H822JW31# | |
| | | | 10000pF | ±5% | GRM32D7U2H103JW31# | |
| | 250Vdc | U2J | 33000pF | ±5% | GRM32D7U2E333JW31# | |
| | | | 39000pF | ±5% | GRM32D7U2E393JW31# | |
| | | | 47000pF | ±5% | GRM32D7U2E473JW31# | |

### 4.5×2.0mm

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 1.0mm | 3150Vdc | U2J | 10pF | ±5% | GRM42A7U3F100JW31# | |
| | | | 12pF | ±5% | GRM42A7U3F120JW31# | |
| | | | 15pF | ±5% | GRM42A7U3F150JW31# | |
| | | | 18pF | ±5% | GRM42A7U3F180JW31# | |
| | | | 22pF | ±5% | GRM42A7U3F220JW31# | |
| | | | 27pF | ±5% | GRM42A7U3F270JW31# | |

Part number # indicates the package specification code.

# GRM Series Temperature Compensating Type Part Number List

**(→ 4.5×2.0mm)**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 1.0mm | 3150Vdc | U2J | 33pF | ±5% | **GRM42A7U3F330JW31#** | |
| | | | 39pF | ±5% | **GRM42A7U3F390JW31#** | |
| | | | 47pF | ±5% | **GRM42A7U3F470JW31#** | |
| | | | 56pF | ±5% | **GRM42A7U3F560JW31#** | |
| | | | 68pF | ±5% | **GRM42A7U3F680JW31#** | |
| | | | 82pF | ±5% | **GRM42A7U3F820JW31#** | |
| | | | 100pF | ±5% | **GRM42A7U3F101JW31#** | |

**4.5×3.2mm**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 1.5mm | 1000Vdc | U2J | 2700pF | ±5% | **GRM43Q7U3A272JW31#** | |
| | | | 3300pF | ±5% | **GRM43Q7U3A332JW31#** | |
| | 630Vdc | U2J | 12000pF | ±5% | **GRM43Q7U2J123JW31#** | |
| | 500Vdc | U2J | 12000pF | ±5% | **GRM43Q7U2H123JW31#** | |
| 2.0mm | 1000Vdc | U2J | 3900pF | ±5% | **GRM43D7U3A392JW31#** | |
| | | | 4700pF | ±5% | **GRM43D7U3A472JW31#** | |
| | 630Vdc | U2J | 15000pF | ±5% | **GRM43D7U2J153JW31#** | |
| | | | 18000pF | ±5% | **GRM43D7U2J183JW31#** | |
| | | | 22000pF | ±5% | **GRM43D7U2J223JW31#** | |
| | 500Vdc | U2J | 15000pF | ±5% | **GRM43D7U2H153JW31#** | |
| | | | 18000pF | ±5% | **GRM43D7U2H183JW31#** | |
| | | | 22000pF | ±5% | **GRM43D7U2H223JW31#** | |

**5.7×5.0mm**

| T max. | Rated Voltage | TC Code | Cap. | Tol. | Part Number | |
|---|---|---|---|---|---|---|
| 1.5mm | 1000Vdc | U2J | 5600pF | ±5% | **GRM55Q7U3A562JW31#** | |
| | | | 6800pF | ±5% | **GRM55Q7U3A682JW31#** | |
| | 630Vdc | U2J | 27000pF | ±5% | **GRM55Q7U2J273JW31#** | |
| | 500Vdc | U2J | 27000pF | ±5% | **GRM55Q7U2H273JW31#** | |
| 2.0mm | 1000Vdc | U2J | 8200pF | ±5% | **GRM55D7U3A822JW31#** | |
| | | | 10000pF | ±5% | **GRM55D7U3A103JW31#** | |
| | 630Vdc | U2J | 33000pF | ±5% | **GRM55D7U2J333JW31#** | |
| | | | 39000pF | ±5% | **GRM55D7U2J393JW31#** | |
| | | | 47000pF | ±5% | **GRM55D7U2J473JW31#** | |
| | 500Vdc | U2J | 33000pF | ±5% | **GRM55D7U2H333JW31#** | |
| | | | 39000pF | ±5% | **GRM55D7U2H393JW31#** | |
| | | | 47000pF | ±5% | **GRM55D7U2H473JW31#** | |

Part number # indicates the package specification code.

# GRM, GR3, GRJ, GR4, GR7, GJM, GQM, GA2, GA3, LLL, LLA, LLM, LLR, NFM, KRM, KR3, GMA, GMD ⚠Caution/Notice

WEB

## ⚠Caution

Storage and Operation Conditions ····· 266

Rating ····· 266
1. Temperature Dependent Characteristics ····· 266
2. Measurement of Capacitance ····· 266
3. Applied Voltage and Applied Current ····· 267
4. Type of Applied Voltage and Self-heating Temperature ····· 267
5. DC Voltage and AC Voltage Characteristics ····· 270
6. Capacitance Aging ····· 270
7. Vibration and Shock ····· 271

Soldering and Mounting ····· 271
1. Mounting Position ····· 271
2. Information before Mounting ····· 272
3. Maintenance of the Mounting (pick and place) Machine ····· 272
4-1. Reflow Soldering ····· 273
4-2. Flow Soldering ····· 275
4-3. Correction of Soldered Portion ····· 276
5. Washing ····· 277
6. Electrical Test on Printed Circuit Board ····· 277
7. Printed Circuit Board Cropping ····· 277
8. Assembly ····· 280
9. Die Bonding/Wire Bonding ····· 281

Other ····· 281
1. Under Operation of Equipment ····· 281
2. Other ····· 282

## Notice

Rating ····· 283
1. Operating Temperature ····· 283
2. Atmosphere Surroundings (gaseous and liquid) ····· 283
3. Piezo-electric Phenomenon ····· 283

Soldering and Mounting ····· 283
1. PCB Design ····· 283
1. Notice for Pattern Forms ····· 283
2. Land Dimensions ····· 284
3. Board Design ····· 288
2. Adhesive Application ····· 288
3. Adhesive Curing ····· 289
4. Flux for Flow Soldering ····· 289
5. Flow Soldering ····· 289
6. Reflow Soldering ····· 289
7. Washing ····· 290
8. Coating ····· 290

Other ····· 290
1. Transportation ····· 290
2. Characteristics Evaluation in the Actual System ····· 290

# ⚠Caution

## Storage and Operation Conditions

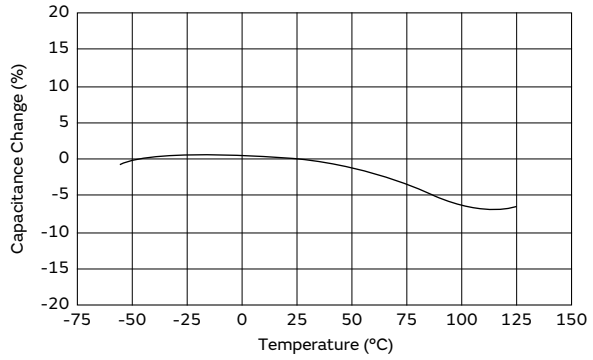
1. The performance of chip multilayer ceramic capacitors and chip EMIFIL NFM series (henceforth just "capacitors") may be affected by the storage conditions.
Please use them promptly after delivery.
1-1. Maintain appropriate storage for the capacitors using the following conditions: Room Temperature of +5 to +40°C and a Relative Humidity of 20 to 70%.
High temperature and humidity conditions and/or prolonged storage may cause deterioration of the packaging materials. If more than six months have elapsed since delivery, check packaging, mounting, etc. before use.
In addition, this may cause oxidation of the electrodes. If more than one year has elapsed since delivery, also check the solderability before use.
1-2. Corrosive gas can react with the termination (external) electrodes or lead wires of capacitors, and result in poor solderability. Do not store the capacitors in an atmosphere consisting of corrosive gas (e.g., hydrogen sulfide, sulfur dioxide, chlorine, ammonia gas, etc.).
1-3. Due to moisture condensation caused by rapid humidity changes, or the photochemical change caused by direct sunlight on the terminal electrodes and/or the resin/epoxy coatings, the solderability and electrical performance may deteriorate. Do not store capacitors under direct sunlight or in high humidity conditions.

## Rating

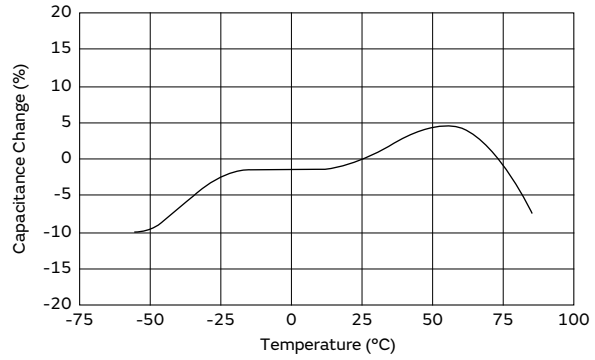
### 1. Temperature Dependent Characteristics

1. The electrical characteristics of a capacitor can change with temperature.
1-1. For capacitors having larger temperature dependency, the capacitance may change with temperature changes.
The following actions are recommended in order to ensure suitable capacitance values.
(1) Select a suitable capacitance for the operating temperature range.
(2) The capacitance may change within the rated temperature.
When you use a high dielectric constant type capacitor in a circuit that needs a tight (narrow) capacitance tolerance (e.g., a time-constant circuit), please carefully consider the temperature characteristics, and carefully confirm the various characteristics in actual use conditions and the actual system.

[Example of Temperature Characteristics X7R (R7)]
Sample: 0.1µF, Rated Voltage 50VDC




[Example of Temperature Characteristics X5R (R6)]
Sample: 22µF, Rated Voltage 4VDC




### 2. Measurement of Capacitance

1. Measure capacitance with the voltage and frequency specified in the product specifications.
1-1. The output voltage of the measuring equipment may decrease occasionally when capacitance is high.
Please confirm whether a prescribed measured voltage is impressed to the capacitor.
1-2. The capacitance values of high dielectric constant type capacitors change depending on the AC voltage applied. Please consider the AC voltage characteristics when selecting a capacitor to be used in an AC circuit.

Continued on the following page.↗

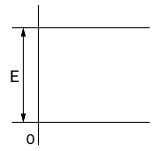
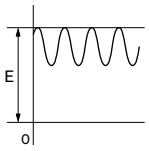
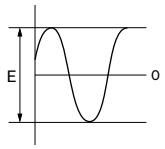
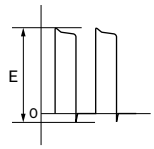
## ⚠Caution

Continued from the preceding page.↘

### 3. Applied Voltage and Applied Current

1. Do not apply a voltage to the capacitor that exceeds the rated voltage as called out in the specifications.
   1-1. Applied voltage between the terminals of a capacitor shall be less than or equal to the rated voltage.
   (1) When AC voltage is superimposed on DC voltage, the zero-to-peak voltage shall not exceed the rated DC voltage.
   When AC voltage or pulse voltage is applied, the peak-to-peak voltage shall not exceed the rated DC voltage.
   (2) Abnormal voltages (surge voltage, static electricity, pulse voltage, etc.) shall not exceed the rated DC voltage.

Typical Voltage Applied to the DC Capacitor

| DC Voltage | DC Voltage+AC | AC Voltage | Pulse Voltage |
|---|---|---|---|
|  |  |  |  |



(E: Maximum possible applied voltage.)

   1-2. Influence of over voltage
   Over voltage that is applied to the capacitor may result in an electrical short circuit caused by the breakdown of the internal dielectric layers.
   The time duration until breakdown depends on the applied voltage and the ambient temperature.
2. Use a safety standard certified capacitor in a power supply input circuit (AC filter), as it is also necessary to consider the withstand voltage and impulse withstand voltage defined for each device.

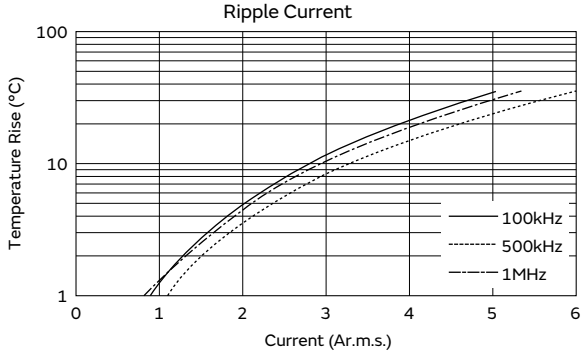
**<Applicable to NFM Series>**

3. The capacitors also have rated currents.
   The current flowing between the terminals of a capacitor shall be less than or equal to the rated current. Using the capacitor beyond this range could lead to excessive heat.

### 4. Type of Applied Voltage and Self-heating Temperature

1. Confirm the operating conditions to make sure that no large current is flowing into the capacitor due to the continuous application of an AC voltage or pulse voltage.
   When a DC rated voltage product is used in an AC voltage circuit or a pulse voltage circuit, the AC current or pulse current will flow into the capacitor; therefore check the self-heating condition.
   Please confirm the surface temperature of the capacitor so that the temperature remains within the upper limits of the operating temperature, including the rise in temperature due to self-heating. When the capacitor is used with a high-frequency voltage or pulse voltage, heat may be generated by dielectric loss.
   **<Applicable to Rated Voltage of less than 100VDC>**
   1-1. The load should be contained so that the self-heating of the capacitor body remains below 20°C, when measuring at an ambient temperature of 25°C.

[Example of Temperature Rise (Heat Generation) in Chip Multilayer Ceramic Capacitors in Contrast to Ripple Current]
Sample: R (R1) characteristics 10µF,
Rated voltage: DC10V




Continued on the following page.↗

## ⚠Caution

Continued from the preceding page.↘

**<Applicable to Temperature Characteristics X7R (R7), X7T (D7), X7T (W0) beyond Rated Voltage of 200VDC>**

1-2. The load should be contained so that the self-heating of the capacitor body remains below 20°C, when measuring at an ambient temperature of 25°C. In addition, use a K thermocouple of ø0.1mm with less heat capacity when measuring, and measure in a condition where there is no effect from the radiant heat of other components or air flow caused by convection. Excessive generation of heat may cause deterioration of the characteristics and reliability of the capacitor. (Absolutely do not perform measurements while the cooling fan is operating, as an accurate measurement may not be performed.)

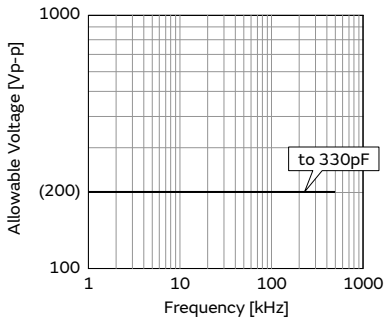
**<Applicable to Temperature Characteristics U2J (7U), C0G (5C) beyond Rated Voltage of 200VDC>**

1-3. Since the self-heating is low in the low loss series, the allowable power becomes extremely high compared to the common X7R (R7) characteristics.
However, when a load with self-heating of 20°C is applied at the rated voltage, the allowable power may be exceeded. When the capacitor is used in a high-frequency voltage circuit of 1kHz or more, the frequency of the applied voltage should be less than 500kHz sine wave (less than 100kHz for a product with rated voltage of DC3.15kV), to limit the voltage load so that the load remains within the derating shown in the following figure. In the case of non-sine wave, high-frequency components exceeding the fundamental frequency may be included. In such a case, please contact Murata. The excessive generation of heat may cause deterioration of the characteristics and reliability of the capacitor.
(Absolutely do not perform measurements while the cooling fan is operating, as an accurate measurement may not be performed.)

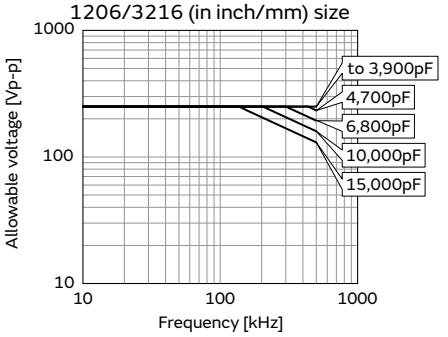
[The sine-wave frequency VS allowable voltage]

The surface temperature of the capacitor: 125°C or less
(including self-heating)

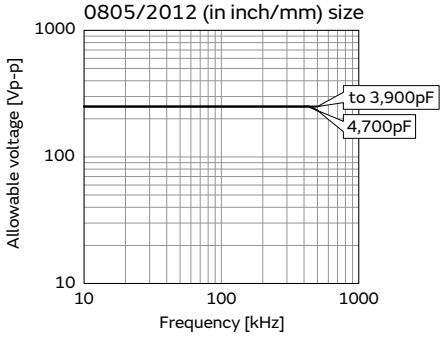
C0G (5C) char., Rated Voltage: DC200V



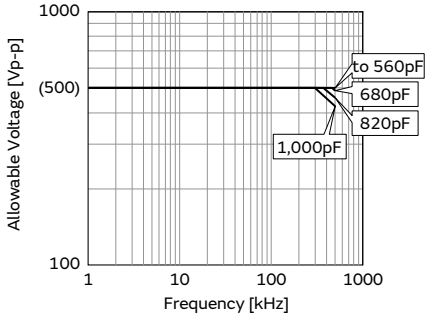

C0G (5C) char., Rated Voltage: DC250V
1206/3216 (in inch/mm) size



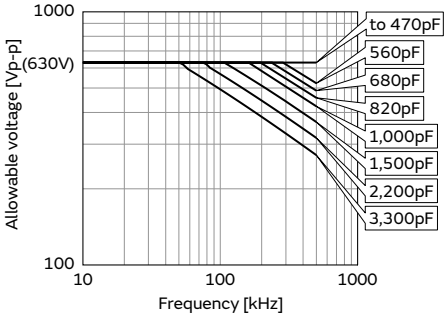

C0G (5C) char., Rated Voltage: DC250V
0805/2012 (in inch/mm) size



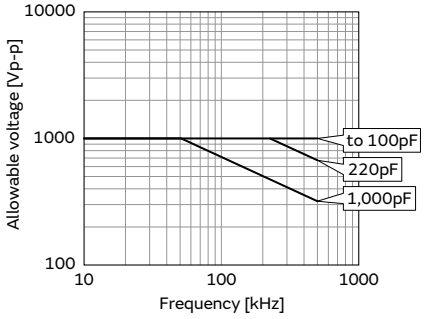

C0G (5C) char., Rated Voltage: DC500V




C0G char., Rated Voltage: DC630V




C0G char., Rated Voltage: DC1kV




Continued on the following page.↗

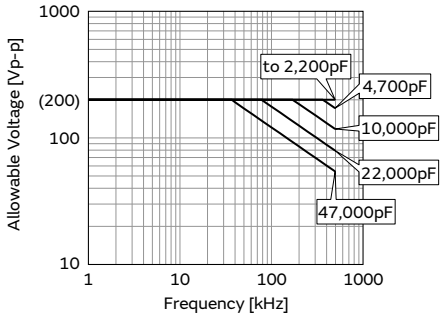
## ⚠Caution

Continued from the preceding page. ↘

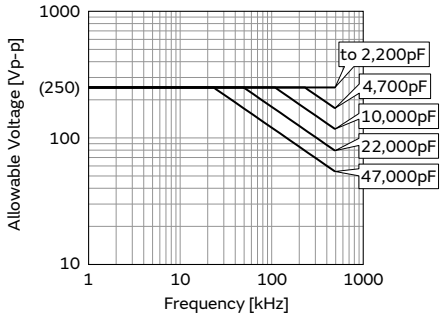
[The sine-wave frequency VS allowable voltage]

The surface temperature of the capacitor: 125°C or less
(including self-heating)

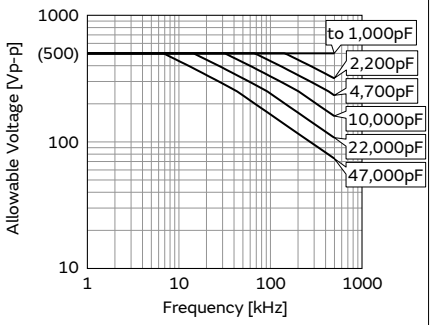
U2J (7U) char., Rated Voltage: DC200V



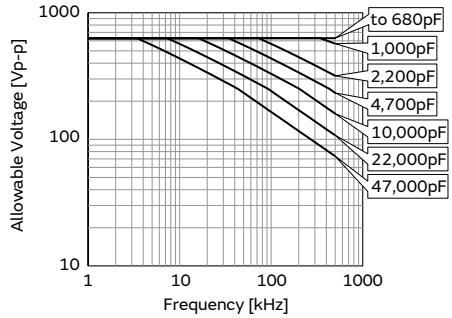

U2J (7U) char., Rated Voltage: DC250V



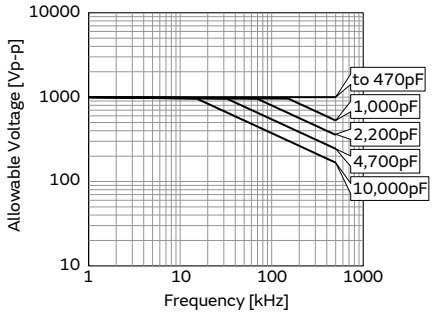

U2J (7U) char., Rated Voltage: DC500V



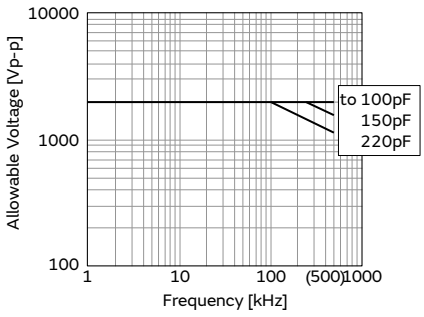

U2J (7U) char., Rated Voltage: DC630V



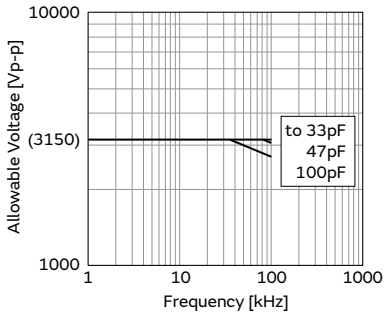

U2J (7U) char., Rated Voltage: DC1kV




U2J (7U) char., Rated Voltage: DC2kV




U2J (7U) char., Rated Voltage: DC3.15kV




Continued on the following page. ↗

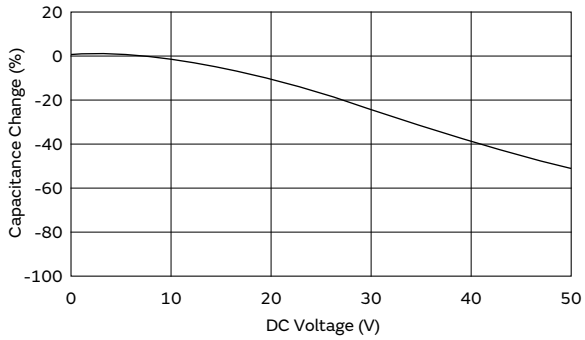
## ⚠Caution

Continued from the preceding page. ↘

### 5. DC Voltage and AC Voltage Characteristics

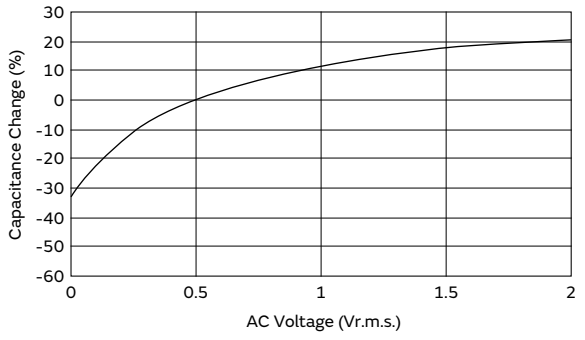
1. The capacitance value of a high dielectric constant type capacitor changes depending on the DC voltage applied. Please consider the DC voltage characteristics when a capacitor is selected for use in a DC circuit.
   1-1. The capacitance of ceramic capacitors may change sharply depending on the applied voltage (see figure). Please confirm the following in order to secure the capacitance.
   (1) Determine whether the capacitance change caused by the applied voltage is within the allowed range.
   (2) In the DC voltage characteristics, the rate of capacitance change becomes larger as voltage increases, even if the applied voltage is below the rated voltage. When a high dielectric constant type capacitor is used in a circuit that requires a tight (narrow) capacitance tolerance (e.g., a time constant circuit), please carefully consider the voltage characteristics, and confirm the various characteristics in the actual operating conditions of the system.

[Example of DC Voltage Characteristics]
Sample: X7R (R7) Characteristics 0.1μF,
Rated Voltage 50VDC




2. The capacitance values of high dielectric constant type capacitors changes depending on the AC voltage applied. Please consider the AC voltage characteristics when selecting a capacitor to be used in an AC circuit.

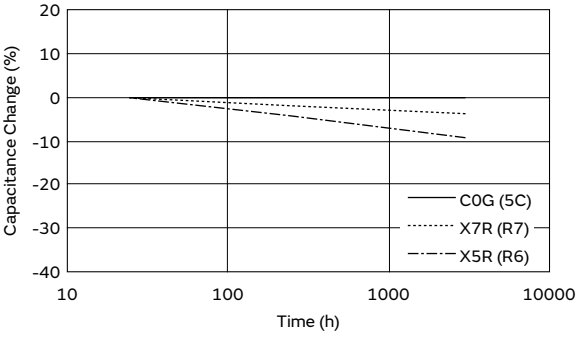
[Example of AC Voltage Characteristics]
Sample: X7R (R7) Characteristics 10μF,
Rated Voltage 6.3VDC




### 6. Capacitance Aging

1. The high dielectric constant type capacitors have an Aging characteristic in which the capacitance value decreases with the passage of time.
   When you use high dielectric constant type capacitors in a circuit that needs a tight (narrow) capacitance tolerance (e.g., a time-constant circuit), please carefully consider the characteristics of these capacitors, such as their aging, voltage, and temperature characteristics. In addition, check capacitors using your actual appliances at the intended environment and operating conditions.

[Example of Change Over Time (Aging Characteristics)]



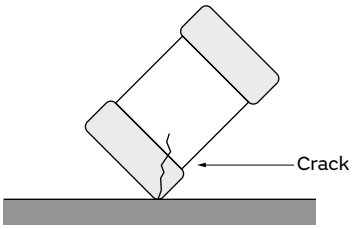

Continued on the following page. ↗

# ⚠Caution

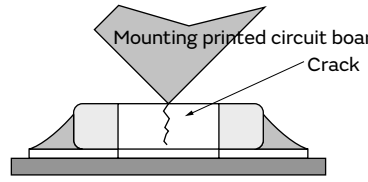
Continued from the preceding page.↘

### 7. Vibration and Shock

1. Please confirm the kind of vibration and/or shock, its condition, and any generation of resonance.
   Please mount the capacitor so as not to generate resonance, and do not allow any impact on the terminals.
2. Mechanical shock due to being dropped may cause damage or a crack in the dielectric material of the capacitor.
   Do not use a dropped capacitor because the quality and reliability may be deteriorated.




3. When printed circuit boards are piled up or handled, the corner of another printed circuit board should not be allowed to hit the capacitor, in order to avoid a crack or other damage to the capacitor.




## Soldering and Mounting

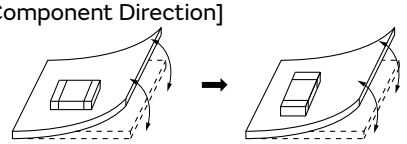
### 1. Mounting Position

1. Confirm the best mounting position and direction that minimizes the stress imposed on the capacitor during flexing or bending the printed circuit board.
   1-1. Choose a mounting position that minimizes the stress imposed on the chip during flexing or bending of the board.

**<Applicable to NFM Series>**

2. If you mount the capacitor near components that generate heat, take note of the heat from the other components and carefully check the self-heating of the capacitor before using.
   If there is significant heat radiation from other components, it could lower the insulation resistance of the capacitor or produce excessive heat.

[Component Direction]

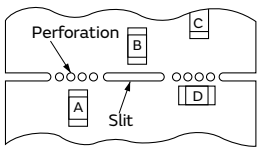



Locate chip horizontal to the direction in which stress acts.

[Chip Mounting Close to Board Separation Point]

It is effective to implement the following measures, to reduce stress in separating the board.
It is best to implement all of the following three measures; however, implement as many measures as possible to reduce stress.

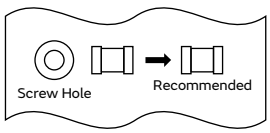
| Contents of Measures | Stress Level |
|---|---|
| (1) Turn the mounting direction of the component parallel to the board separation surface. | A > D *1 |
| (2) Add slits in the board separation part. | A > B |
| (3) Keep the mounting position of the component away from the board separation surface. | A > C |




*1 A > D is valid when stress is added vertically to the perforation as with Hand Separation.
If a Cutting Disc is used, stress will be diagonal to the PCB, therefore A > D is invalid.

[Mounting Capacitors Near Screw Holes]

When a capacitor is mounted near a screw hole, it may be affected by the board deflection that occurs during the tightening of the screw. Mount the capacitor in a position as far away from the screw holes as possible.




Continued on the following page.↗

## ⚠Caution

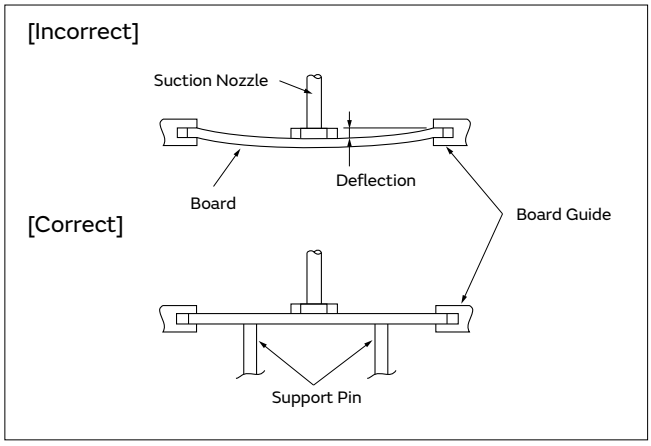
Continued from the preceding page.↘

**2. Information before Mounting**

1. Do not re-use capacitors that were removed from the equipment.
2. Confirm capacitance characteristics under actual applied voltage.
3. Confirm the mechanical stress under actual process and equipment use.
4. Confirm the rated capacitance, rated voltage and other electrical characteristics before assembly.
5. Prior to use, confirm the solderability of capacitors that were in long-term storage.
6. Prior to measuring capacitance, carry out a heat treatment for capacitors that were in long-term storage.
7. The use of Sn-Zn based solder will deteriorate the reliability of the MLCC.
   Please contact our sales representative or product engineers on the use of Sn-Zn based solder in advance.
8. We have also produced a DVD which shows a summary of our recommendations, regarding the precautions for mounting. Please contact our sales representative to request the DVD.

**3. Maintenance of the Mounting (pick and place) Machine**

1. Make sure that the following excessive forces are not applied to the capacitors. Check the mounting in the actual device under actual use conditions ahead of time.
   1-1. In mounting the capacitors on the printed circuit board, any bending force against them shall be kept to a minimum to prevent them from any damage or cracking. Please take into account the following precautions and recommendations for use in your process.
   (1) Adjust the lowest position of the pickup nozzle so as not to bend the printed circuit board.




2. Dirt particles and dust accumulated in the suction nozzle and suction mechanism prevent the nozzle from moving smoothly. This creates excessive force on the capacitor during mounting, causing cracked chips. Also, the locating claw, when worn out, imposes uneven forces on the chip when positioning, causing cracked chips. The suction nozzle and the locating claw must be maintained, checked, and replaced periodically.

**<Applicable to ZRB Series>**

3. To adjust the inspection tolerance for automated appearance sorting machine of mounting position, because ZRB series are easier to shift the mounting position than standard MLCC.
4. To check the overturn and reverse of chip.
5. To control mounting speed carefully, because ZRB series is heavier than standard MLCC.

Continued on the following page.↗

# ⚠Caution

Continued from the preceding page.↘

## 4-1. Reflow Soldering

1. When sudden heat is applied to the components, the mechanical strength of the components will decrease because a sudden temperature change causes deformation inside the components. In order to prevent mechanical damage to the components, preheating is required for both the components and the PCB. Preheating conditions are shown in table 1. It is required to keep the temperature differential between the solder and the components surface (ΔT) as small as possible.
2. When components are immersed in solvent after mounting, be sure to maintain the temperature difference (ΔT) between the component and the solvent within the range shown in table 1.

**Table 1**

| Series | Chip Dimension Code (L/W) | Temperature Differential |
|---|---|---|
| **GRM/GJM/GQM/GR3/ GRJ/KRM/LLR/NFM/GR7** | **02/03/15/18/21/31** | ΔT≦190°C |
| **LLL** | **02/03/15/18/1U/21/31** | |
| **ZRB** | **15/18** | |
| **GR3/GRJ/GRM/KR3/KRM GA2/GA3/GR4** | **32/42/43/52/55** | ΔT≦130°C |
| **LLA/LLM** | **18/21/31** | |
| **GQM** | **22** | |

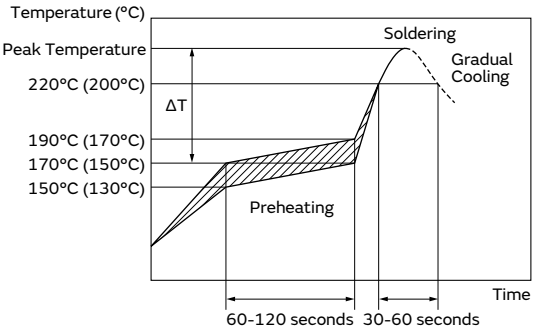
**Recommended Conditions**

| | Pb-Sn Solder | Lead Free Solder |
|---|---|---|
| Peak Temperature | 230 to 250°C | 240 to 260°C |
| Atmosphere | Air | Air or $N_2$ |

Pb-Sn Solder: Sn-37Pb
Lead Free Solder: Sn-3.0Ag-0.5Cu

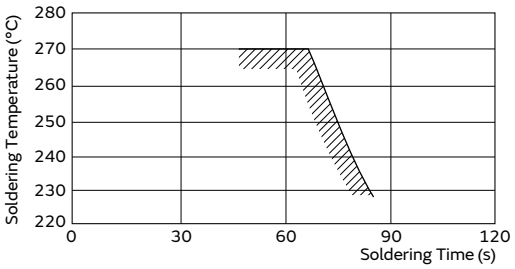
3. When a capacitor is mounted at a temperature lower than the peak reflow temperature recommended by the solder manufacturer, the following quality problems can occur. Consider factors such as the placement of peripheral components and the reflow temperature setting to prevent the capacitor's reflow temperature from dropping below the peak temperature specified. Be sure to evaluate the mounting situation beforehand and verify that none of the following problems occur.
   - Drop in solder wettability
   - Solder voids
   - Possible occurrence of whiskering
   - Drop in bonding strength
   - Drop in self-alignment properties
   - Possible occurrence of tombstones and/or shifting on the land patterns of the circuit board

[Example of Temperature Conditions for Reflow Soldering]




Temperature
Incase of Lead Free Solder
( ): In case of Pb-Sn Solder

[Allowable Reflow Soldering Temperature and Time]




In the case of repeated soldering, the accumulated soldering time must be within the range shown above.

Continued on the following page.↗

# ⚠Caution

Continued from the preceding page.↘

4. Optimum Solder Amount for Reflow Soldering

4-1. Overly thick application of solder paste results in a excessive solder fillet height.
This makes the chip more susceptible to mechanical and thermal stress on the board and may cause the chips to crack.

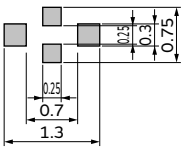
4-2. Too little solder paste results in a lack of adhesive strength on the termination, which may result in chips breaking loose from the PCB.

4-3. Please confirm that solder has been applied smoothly to the termination.

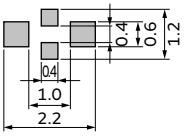
**<Applicable to NFM Series>**

[Guideline of solder paste thickness]
100-150μm: NFM15/18/21/3D/31
100-200μm: NFM41

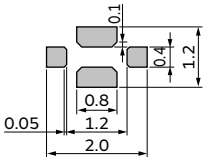
NFM15CC/15PC



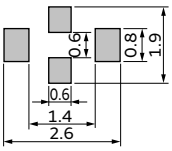

NFM18CC/18PC



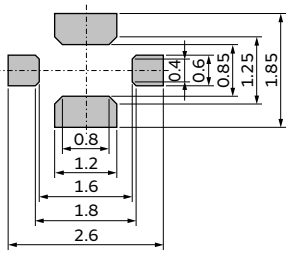

NFM18PS



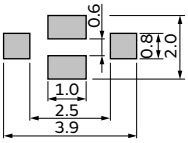

NFM21CC/21PC



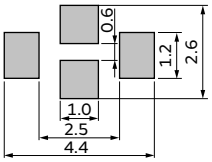

NFM21PS



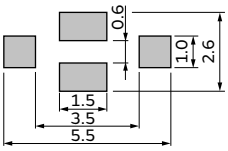

NFM3DCC/3DPC




NFM31PC/31KC




NFM41CC/41PC




**Inverting the PCB**

Make sure not to impose any abnormal mechanical shocks to the PCB.

Continued on the following page.↗

# ⚠Caution

Continued from the preceding page.↘

## 4-2. Flow Soldering

1. Do not apply flow soldering to chips not listed in table 2.

**Table 2**

| Series | Chip Dimension Code (L/W) | Temperature Differential |
|---|---|---|
| **GR3/GRM** | **18/21/31** | ΔT≦150°C |
| **GQM** | **18/21** | |
| **LLL** | **21/31** | |
| **GRJ** | **18/21/31** | |
| **NFM** | **3D/31/41** | |

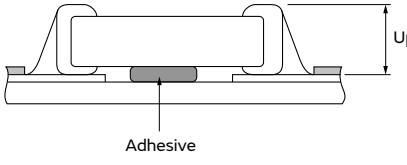
2. When sudden heat is applied to the components, the mechanical strength of the components will decrease because a sudden temperature change causes deformation inside the components. In order to prevent mechanical damage to the components, preheating is required for both of the components and the PCB. Preheating conditions are shown in table 2. It is required to keep the temperature differential between the solder and the components surface (ΔT) as low as possible.
3. Excessively long soldering time or high soldering temperature can result in leaching of the terminations, causing poor adhesion or a reduction in capacitance value due to loss of contact between the inner electrodes and terminations.
4. When components are immersed in solvent after mounting, be sure to maintain the temperature differential (ΔT) between the component and solvent within the range shown in the table 2.

**Recommended Conditions**

| | Pb-Sn Solder | Lead Free Solder |
|---|---|---|
| Preheating Peak Temperature | 90 to 110°C | 100 to 120°C<br>140 to 160°C (**NFM**) |
| Soldering Peak Temperature | 240 to 250°C | 250 to 260°C |
| Atmosphere | Air | Air or $N_2$ |

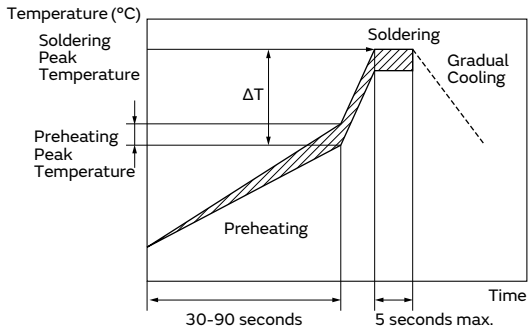
Pb-Sn Solder: Sn-37Pb
Lead Free Solder: Sn-3.0Ag-0.5Cu

5. Optimum Solder Amount for Flow Soldering
   5-1. The top of the solder fillet should be lower than the thickness of the components. If the solder amount is excessive, the risk of cracking is higher during board bending or any other stressful condition.

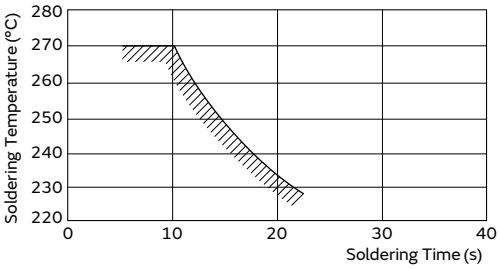



in section

[Example of Temperature Conditions for Flow Soldering]




[Allowable Flow Soldering Temperature and Time]




In the case of repeated soldering, the accumulated soldering time must be within the range shown above.

Continued on the following page.↗

# ⚠Caution

Continued from the preceding page.↘

### 4-3. Correction of Soldered Portion

When sudden heat is applied to the capacitor, distortion caused by the large temperature difference occurs internally, and can be the cause of cracks. Capacitors also tend to be affected by mechanical and thermal stress depending on the board preheating temperature or the soldering fillet shape, and can be the cause of cracks. Please refer to "1. PCB Design" or "3. Optimum solder amount" for the solder amount and the fillet shapes.
Do not correct with a soldering iron for ZRB series.
Correction with a soldering iron for ZRB series may cause loss suppress acoustic noise, because the solder amount become excessive.

1. Correction with a Soldering Iron
   1-1. In order to reduce damage to the capacitor, be sure to preheat the capacitor and the mounting board. Preheat to the temperature range shown in Table 3. A hot plate, hot air type preheater, etc. can be used for preheating.
   1-2. After soldering, do not allow the component/PCB to cool down rapidly.
   1-3. Perform the corrections with a soldering iron as quickly as possible. If the soldering iron is applied too long, there is a possibility of causing solder leaching on the terminal electrodes, which will cause deterioration of the adhesive strength and other problems.

**Table 3**

| Series | Chip Dimension Code (L/W) | Temperature of Soldering Iron Tip | Preheating Temperature | Temperature Differential (ΔT) | Atmosphere |
|---|---|---|---|---|---|
| **GJM/GQM/GR3/GRJ/GRM/GR7** | **03/15/18/21/31** | 350°C max. | 150°C min. | ΔT≦190°C | Air |
| **GRJ/GRM/GR4/GA2/GA3** | **32/42/43/52/55** | 280°C max. | 150°C min. | ΔT≦130°C | Air |
| **GQM** | **22** | | | | |
| **NFM** | **3D/41** | 350°C max. | 150°C min. | ΔT≦190°C | Air |
| | **15** | 340°C max. | | | |

*Applicable for both Pb-Sn and Lead Free Solder.
Pb-Sn Solder: Sn-37Pb
Lead Free Solder: Sn-3.0Ag-0.5Cu
*Please manage ΔT in the temperature of soldering iron and the preheating temperature.

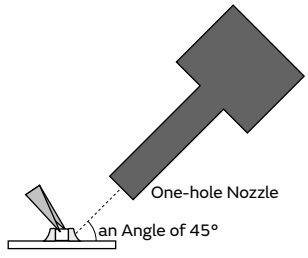
2. Correction with Spot Heater
   Compared to local heating with a soldering iron, hot air heating by a spot heater heats the overall component and board, therefore, it tends to lessen the thermal shock. In the case of a high density mounted board, a spot heater can also prevent concerns of the soldering iron making direct contact with the component.
   2-1. If the distance from the hot air outlet of the spot heater to the component is too close, cracks may occur due to thermal shock. To prevent this problem, follow the conditions shown in Table 4.

**Table 4**

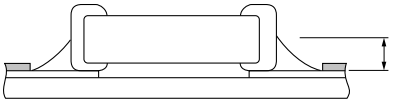
| | |
|---|---|
| Distance | 5mm or more |
| Hot Air Application Angle | 45° *Figure 1 |
| Hot Air Temperature Nozzle Outlet | 400°C max. |
| Application Time | Less than 10 seconds (1206 (3216M) size or smaller) |
| | Less than 30 seconds (1210 (3225M) size or larger) |

   2-2. In order to create an appropriate solder fillet shape, it is recommended that hot air be applied at the angle shown in Figure 1.

[*Figure 1]




3. Optimum solder amount when re-working with a soldering iron
   3-1. If the solder amount is excessive, the risk of cracking is higher during board bending or any other stressful condition.
   Too little solder amount results in a lack of adhesive strength on the termination, which may result in chips breaking loose from the PCB.
   Please confirm that solder has been applied smoothly and rising to the end surface of the chip.




Continued on the following page.↗

# ⚠Caution

Continued from the preceding page.↘

3-2. A soldering iron with a tip of ø3mm or smaller should be used. It is also necessary to keep the soldering iron from touching the components during the re-work.

3-3. Solder wire with ø0.5mm or smaller is required for soldering.

**<Applicable to KR3/KRM Series>**

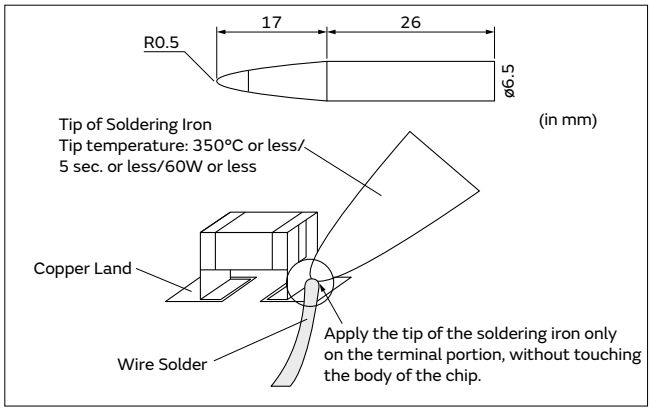
4. For the shape of the soldering iron tip, refer to the figure on the right.
Regarding the type of solder, use a wire diameter of ø0.5mm or less (rosin core wire solder).

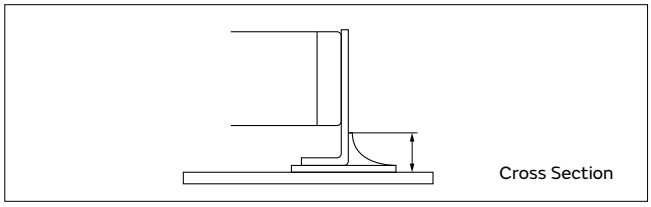
4-1. How to Apply the Soldering Iron
Apply the tip of the soldering iron against the lower end of the metal terminal.

1) In order to prevent cracking caused by sudden heating of the ceramic device, do not touch the ceramic base directly.

2) In order to prevent deviations and dislocating of the chip, do not touch the junction of the chip and the metal terminal, and the metal portion on the outside directly.

4-2. Appropriate Amount of Solder
The amount of solder for corrections by soldering iron, should be lower than the height of the lower side of the chip.




## 5. Washing

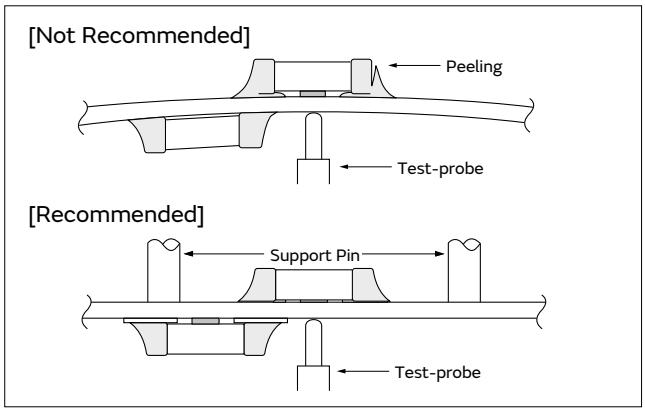
Excessive ultrasonic oscillation during cleaning can cause the PCBs to resonate, resulting in cracked chips or broken solder joints. Before starting your production process, test your cleaning equipment/process to insure it does not degrade the capacitors.

## 6. Electrical Test on Printed Circuit Board

1. Confirm position of the support pin or specific jig, when inspecting the electrical performance of a capacitor after mounting on the printed circuit board.

1-1. Avoid bending the printed circuit board by the pressure of a test-probe, etc.
The thrusting force of the test probe can flex the PCB, resulting in cracked chips or open solder joints. Provide support pins on the back side of the PCB to prevent warping or flexing. Install support pins as close to the test-probe as possible.

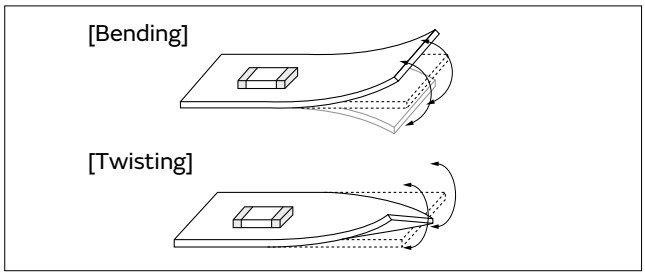
1-2. Avoid vibration of the board by shock when a test-probe contacts a printed circuit board.




## 7. Printed Circuit Board Cropping

1. After mounting a capacitor on a printed circuit board, do not apply any stress to the capacitor that causes bending or twisting the board.

1-1. In cropping the board, the stress as shown at right may cause the capacitor to crack.
Cracked capacitors may cause deterioration of the insulation resistance, and result in a short.
Avoid this type of stress to a capacitor.




Continued on the following page.↗

## ⚠Caution

Continued from the preceding page.↘

2. Check the cropping method for the printed circuit board in advance.

2-1. Printed circuit board cropping shall be carried out by using a jig or an apparatus (Disc separator, router type separator, etc.) to prevent the mechanical stress that can occur to the board.

| Board Separation Method | Hand Separation Nipper Separation | (1) Board Separation Jig | Board Separation Apparatus | |
|---|---|---|---|---|
| | | | (2) Disc Separator | (3) Router Type Separator |
| Level of stress on board | High | Medium | Medium | Low |
| Recommended | × | △* | △* | ○ |
| Notes | Hand and nipper separation apply a high level of stress. Use another method. | · Board handling<br>· Board bending direction<br>· Layout of capacitors | · Board handling<br>· Layout of slits<br>· Design of V groove<br>· Arrangement of blades<br>· Controlling blade life | Board handling |

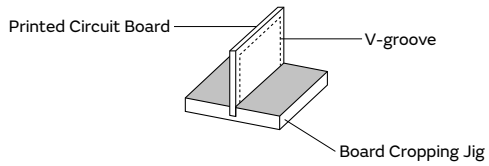
* When a board separation jig or disc separator is used, if the following precautions are not observed, a large board deflection stress will occur and the capacitors may crack. Use router type separator if at all possible.

(1) Example of a suitable jig

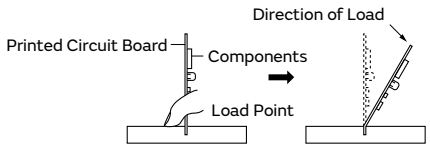
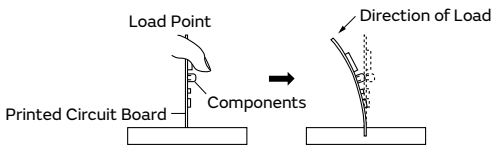
[In the case of Single-side Mounting]

An outline of the board separation jig is shown as follows. Recommended example: Stress on the component mounting position can be minimized by holding the portion close to the jig, and bend in the direction towards the side where the capacitors are mounted. Not recommended example: The risk of cracks occurring in the capacitors increases due to large stress being applied to the component mounting position, if the portion away from the jig is held and bent in the direction opposite the side where the capacitors are mounted.

[Outline of Jig]




**Hand Separation**

| Recommended | Not Recommended |
|---|---|
|  |  |





[In the case of Double-sided Mounting]

Since components are mounted on both sides of the board, the risk of cracks occurring can not be avoided with the above method.

Therefore, implement the following measures to prevent stress from being applied to the components.

(Measures)

(1) Consider introducing a router type separator.
If it is difficult to introduce a router type separator, implement the following measures. (Refer to item 1. Mounting Position)

(2) Mount the components parallel to the board separation surface.

(3) When mounting components near the board separation point, add slits in the separation position near the component.

(4) Keep the mounting position of the components away from the board separation point.

Continued on the following page.↗

# ⚠Caution

Continued from the preceding page.↘

(2) Example of a Disc Separator

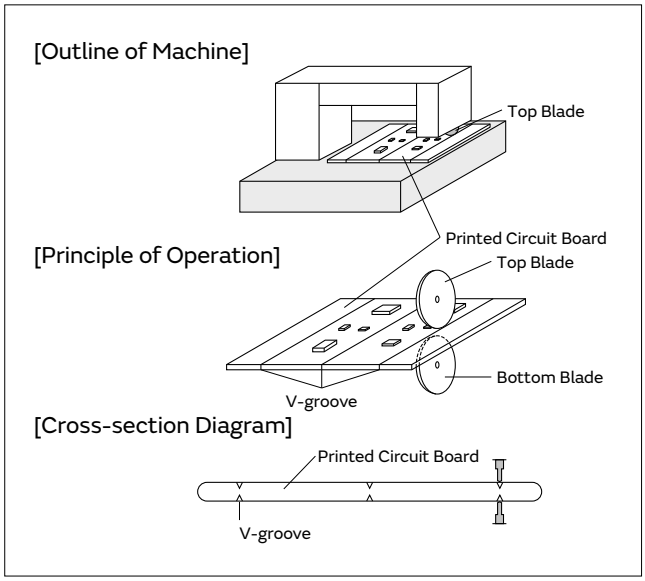
An outline of a disc separator is shown as follows. As shown in the Principle of Operation, the top blade and bottom blade are aligned with the V-grooves on the printed circuit board to separate the board.

In the following case, board deflection stress will be applied and cause cracks in the capacitors.

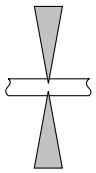
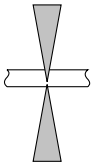
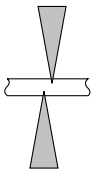
(1) When the adjustment of the top and bottom blades are misaligned, such as deviating in the top-bottom, left-right or front-rear directions

(2) The angle of the V groove is too low, depth of the V groove is too shallow, or the V groove is misaligned top-bottom

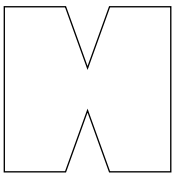
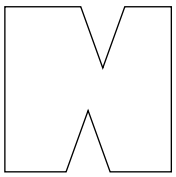
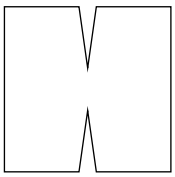
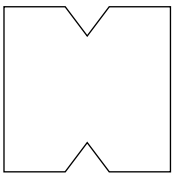
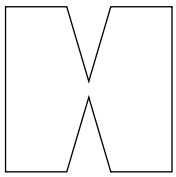
IF V groove is too deep, it is possible to brake when you handle and carry it. Carefully design depth of the V groove with consideration about strength of material of the printed circuit board.




**Disc Separator**

| Recommended | Not Recommended | | |
|---|---|---|---|
| | Top-bottom Misalignment | Left-right Misalignment | Front-rear Misalignment |
|  |  |  | |
| Top Blade / Bottom Blade | Top Blade / Bottom Blade | Top Blade / Bottom Blade | Top Blade / Bottom Blade |

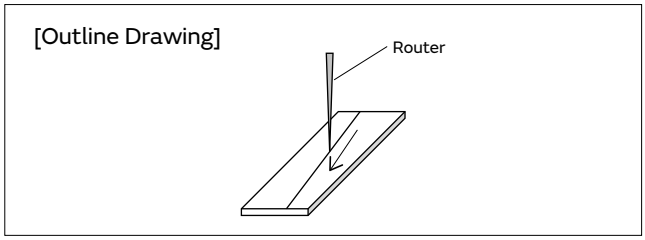
**V-groove Design**

| Example of Recommended V-groove Design | Not Recommended | | | |
|---|---|---|---|---|
| | Left-right Misalignment | Low-Angle | Depth too Shallow | Depth too Deep |
|  |  |  |  |  |

(3) Example of Router Type Separator

The router type separator performs cutting by a router rotating at a high speed. Since the board does not bend in the cutting process, stress on the board can be suppressed during board separation.

When attaching or removing boards to/from the router type separator, carefully handle the boards to prevent bending.




Continued on the following page.↗

## ⚠Caution

Continued from the preceding page. ↘

### 8. Assembly

1. Handling

If a board mounted with capacitors is held with one hand, the board may bend. Firmly hold the edges of the board with both hands when handling.

If a board mounted with capacitors is dropped, cracks may occur in the capacitors.

Do not use dropped boards, as there is a possibility that the quality of the capacitors may be impaired.

2. Attachment of Other Components

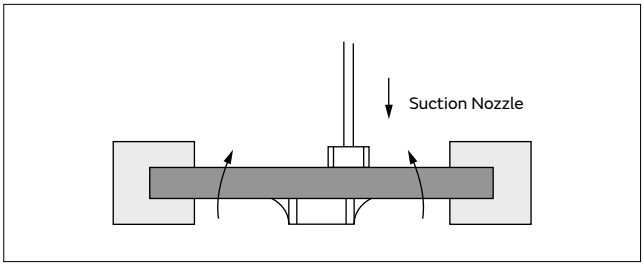
2-1. Mounting of Other Components

Pay attention to the following items, when mounting other components on the back side of the board after capacitors have been mounted on the opposite side.

When the bottom dead point of the suction nozzle is set too low, board deflection stress may be applied to the capacitors on the back side (bottom side), and cracks may occur in the capacitors.

· After the board is straightened, set the bottom dead point of the nozzle on the upper surface of the board.

· Periodically check and adjust the bottom dead point.




2-2. Inserting Components with Leads into Boards

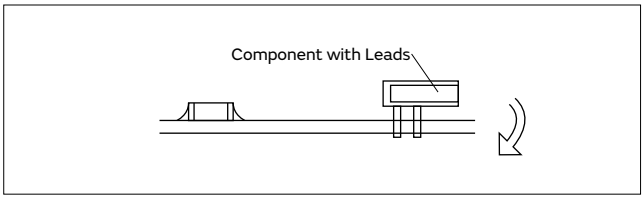
When inserting components (transformers, IC, etc.) into boards, bending the board may cause cracks in the capacitors or cracks in the solder.

Pay attention to the following.

· Increase the size of the holes to insert the leads, to reduce the stress on the board during insertion.

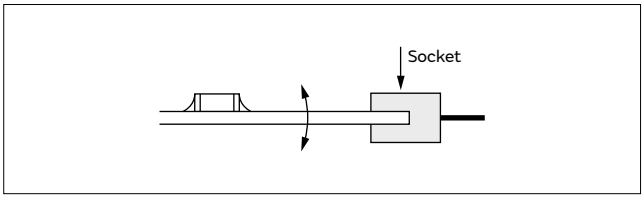
· Fix the board with support pins or a dedicated jig before insertion.

· Support below the board so that the board does not bend. When using support pins on the board, periodically confirm that there is no difference in the height of each support pin.




2-3. Attaching/Removing Sockets and/or Connectors

Insertion and removal of sockets and connectors, etc., might cause the board to bend. Please insure that the board does not warp during insertion and removal of sockets and connectors, etc., or the bending may damage mounted components on the board.




2-4. Tightening Screws

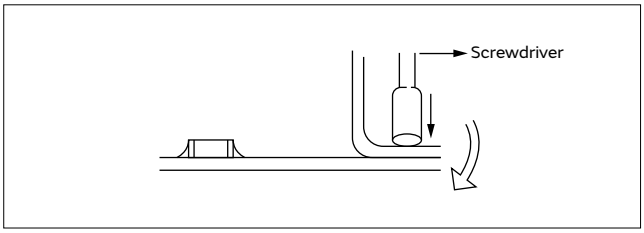
The board may be bent, when tightening screws, etc. during the attachment of the board to a shield or chassis.

Pay attention to the following items before performing the work.

· Plan the work to prevent the board from bending.

· Use a torque screwdriver, to prevent over-tightening of the screws.

· The board may bend after mounting by reflow soldering, etc. Please note, as stress may be applied to the chips by forcibly flattening the board when tightening the screws.




Continued on the following page. ↗

## ⚠Caution

Continued from the preceding page.↘

**<Applicable to GMA or GMD Series>**

**9. Die Bonding/Wire Bonding**

1. Die Bonding of Capacitors
   1-1. Use the following materials for the Brazing alloys:
   Au-Sn (80/20) 300 to 320 °C in $N_2$ atmosphere
   1-2. Mounting
   (1) Control the temperature of the substrate so it matches the temperature of the brazing alloy.
   (2) Place the brazing alloy on the substrate and place the capacitor on the alloy. Hold the capacitor and gently apply the load. Be sure to complete the operation within 1 minute.
2. Wire Bonding
   2-1. Wire
   Gold wire: 25 micro m (0.001 inch) diameter
   2-2. Bonding
   (1) Thermo compression, ultrasonic ball bonding.
   (2) Required stage temperature: 150 to 200 °C
   (3) Required wedge or capillary weight: 0.2N to 0.5N
   (4) Bond the capacitor and base substrate or other devices with gold wire.

### Other

**1. Under Operation of Equipment**

1-1. Do not touch a capacitor directly with bare hands during operation in order to avoid the danger of an electric shock.
1-2. Do not allow the terminals of a capacitor to come in contact with any conductive objects (short-circuit). Do not expose a capacitor to a conductive liquid, including any acid or alkali solutions.
1-3. Confirm the environment in which the equipment will operate is under the specified conditions.
Do not use the equipment under the following environments.
(1) Being spattered with water or oil.
(2) Being exposed to direct sunlight.
(3) Being exposed to ozone, ultraviolet rays, or radiation.
(4) Being exposed to toxic gas (e.g., hydrogen sulfide, sulfur dioxide, chlorine, ammonia gas, etc.)
(5) Any vibrations or mechanical shocks exceeding the specified limits.
(6) Moisture condensing environments.
1-4. Use damp proof countermeasures if using under any conditions that can cause condensation.

Continued on the following page.↗

## ⚠Caution

Continued from the preceding page.↘

**2. Other**

2-1. In an Emergency

(1) If the equipment should generate smoke, fire, or smell, immediately turn off or unplug the equipment.
If the equipment is not turned off or unplugged, the hazards may be worsened by supplying continuous power.

(2) In this type of situation, do not allow face and hands to come in contact with the capacitor or burns may be caused by the capacitor's high temperature.

2-2. Disposal of Waste

When capacitors are disposed of, they must be burned or buried by an industrial waste vendor with the appropriate licenses.

2-3. Circuit Design

(1) Addition of Fail Safe Function
Capacitors that are cracked by dropping or bending of the board may cause deterioration of the insulation resistance, and result in a short.
If the circuit being used may cause an electrical shock, smoke or fire when a capacitor is shorted, be sure to install fail-safe functions, such as a fuse, to prevent secondary accidents.

(2) Capacitors used to prevent electromagnetic interference in the primary AC side circuit, or as a connection/insulation, must be a safety standard certified product, or satisfy the contents stipulated in the Electrical Appliance and Material Safety Law. Install a fuse for each line in case of a short.

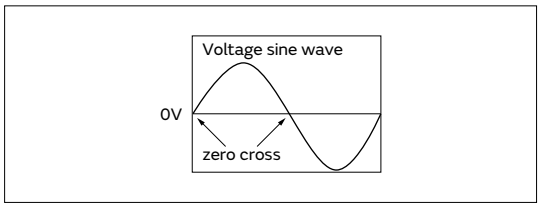
(3) The GJM, GMA, GMD, GQM, GR3, GRJ, GRM, KR3, KRM, LLA, LLL, LLM, LLR, NFM and ZRB series are not safety standard certified products.

2-4. Test Condition for AC Withstanding Voltage

(1) Test Equipment
Test equipment for AC withstanding voltage should be made with equipment capable of creating a wave similar to a 50/60Hz sine wave.

(2) Voltage Applied Method
The capacitor's lead or terminal should be firmly connected to the output of the withstanding voltage test equipment, and then the voltage should be raised from near zero to the test voltage.
If the test voltage is applied directly to the capacitor without raising it from near zero, it should be applied with the zero cross. *At the end of the test time, the test voltage should be reduced to near zero, and then capacitor's lead or terminals should be taken off the output of the withstanding voltage test equipment.
If the test voltage applied directly to the capacitor without raising it from near zero, surge voltage may occur and cause a defect.

*ZERO CROSS is the point where voltage sine wave passes 0V. - See the figure at right -




2-5. Remarks

Failure to follow the cautions may result, worst case, in a short circuit and smoking when the product is used.
The above notices are for standard applications and conditions. Contact us when the products are used in special mounting conditions.
Select optimum conditions for operation as they determine the reliability of the product after assembly.
The data herein are given in typical values, not guaranteed ratings.

# Notice

## Rating

### 1. Operating Temperature

1. The operating temperature limit depends on the capacitor.
   1-1. Do not apply temperatures exceeding the maximum operating temperature.
   It is necessary to select a capacitor with a suitable rated temperature that will cover the operating temperature range.
   It is also necessary to consider the temperature distribution in equipment and the seasonal temperature variable factor.
   1-2. Consider the self-heating factor of the capacitor.
   The surface temperature of the capacitor shall not exceed the maximum operating temperature including self-heating.

### 2. Atmosphere Surroundings (gaseous and liquid)

1. Restriction on the operating environment of capacitors.
   1-1. Capacitors, when used in the above, unsuitable, operating environments may deteriorate due to the corrosion of the terminations and the penetration of moisture into the capacitor.
   1-2. The same phenomenon as the above may occur when the electrodes or terminals of the capacitor are subject to moisture condensation.
   1-3. The deterioration of characteristics and insulation resistance due to the oxidization or corrosion of terminal electrodes may result in breakdown when the capacitor is exposed to corrosive or volatile gases or solvents for long periods of time.

### 3. Piezo-electric Phenomenon

1. When using high dielectric constant type capacitors in AC or pulse circuits, the capacitor itself vibrates at specific frequencies and noise may be generated.
   Moreover, when the mechanical vibration or shock is added to the capacitor, noise may occur.

## Soldering and Mounting

### 1. PCB Design

1. Notice for Pattern Forms
   1-1. Unlike leaded components, chip components are susceptible to flexing stresses since they are mounted directly on the substrate.
   They are also more sensitive to mechanical and thermal stresses than leaded components.
   Excess solder fillet height can multiply these stresses and cause chip cracking. When designing substrates, take land patterns and dimensions into consideration to eliminate the possibility of excess solder fillet height.
   1-2. There is a possibility of chip cracking caused by PCB expansion/contraction with heat, because stress on a chip is different depending on PCB material and structure. When the thermal expansion coefficient greatly differs between the board used for mounting and the chip, it will cause cracking of the chip due to the thermal expansion and contraction.
   When capacitors are mounted on a fluorine resin printed circuit board or on a single-layered glass epoxy board, it may also cause cracking of the chip for the same reason.

**<Applicable to NFM Series>**

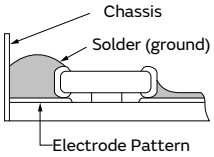
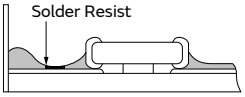
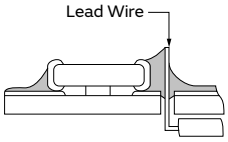
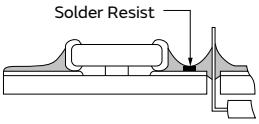
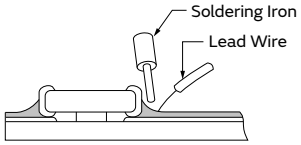
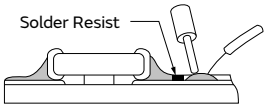
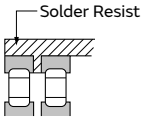
   1-3. Because noise is suppressed by shunting unwanted high-frequency components to the ground, when designing a land for the NFM series, design the ground pattern to be as large as possible in order to better bring out this characteristic.
   As shown in the figure below, noise countermeasures can be made more effective by using a via to connect the ground pattern on the chip mounting surface to a larger ground pattern on the inner layer.

Continued on the following page.↗

# Notice

Continued from the preceding page. ↘

**Pattern Forms**

| | Prohibited | Correct |
|---|---|---|
| **Placing Close to Chassis** |  in section |  in section |
| **Placing of Chip Components and Leaded Components** |  in section |  in section |
| **Placing of Leaded Components after Chip Component** |  in section |  in section |
| **Lateral Mounting** | |  |

2. Land Dimensions

2-1. Please refer to the land dimensions in table 1 for flow soldering, table 2 for reflow soldering, table 3 for reflow soldering for ZRB Series, table 4 for reflow soldering for LLA Series, table 5 for reflow soldering for LLM Series.
Please confirm the suitable land dimension by evaluating of the actual SET / PCB.

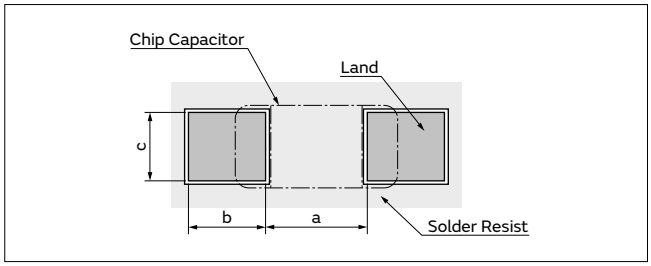



**Table 1 Flow Soldering Method**

| Series | Chip Dimension Code (L/W) | Chip (L×W) | a | b | c |
|---|---|---|---|---|---|
| **GQM/GR3/GRJ/GRM** | **18** | 1.6×0.8 | 0.6 to 1.0 | 0.8 to 0.9 | 0.6 to 0.8 |
| **GQM/GR3/GRJ/GRM** | **21** | 2.0×1.25 | 1.0 to 1.2 | 0.9 to 1.0 | 0.8 to 1.1 |
| **GR3/GRJ/GRM** | **31** | 3.2×1.6 | 2.2 to 2.6 | 1.0 to 1.1 | 1.0 to 1.4 |
| **LLL** | **21** | 1.25×2.0 | 0.4 to 0.7 | 0.5 to 0.7 | 1.4 to 1.8 |
| **LLL** | **31** | 1.6×3.2 | 0.6 to 1.0 | 0.8 to 0.9 | 2.6 to 2.8 |

Flow soldering can only be used for products with a chip size from 1.6x0.8mm to 3.2x1.6mm.

(in mm)

Continued on the following page. ↗

# Notice

Continued from the preceding page.↘

### Table 2 Reflow Soldering Method

| Series | Chip Dimension Code (L/W) | Chip (L×W) | a | b | c |
|---|---|---|---|---|---|
| GJM/GRM | 02 | 0.4×0.2 | 0.16 to 0.2 | 0.12 to 0.18 | 0.2 to 0.23 |
| GJM/GRM | 03 | 0.6×0.3 (±0.03) | 0.2 to 0.25 | 0.2 to 0.3 | 0.25 to 0.35 |
| | | 0.6×0.3 (±0.05) | 0.2 to 0.25 | 0.25 to 0.35 | 0.3 to 0.4 |
| | | 0.6×0.3 (±0.09) | 0.23 to 0.3 | 0.25 to 0.35 | 0.3 to 0.4 |
| GJM/GRM | 15 | 1.0×0.5 (within ±0.10) | 0.3 to 0.5 | 0.35 to 0.45 | 0.4 to 0.6 |
| | | 1.0×0.5 (±0.15/±0.20) | 0.4 to 0.6 | 0.4 to 0.5 | 0.5 to 0.7 |
| GQM/GR3/GRJ/GRM | 18 | 1.6×0.8 (within ±0.10) | 0.6 to 0.8 | 0.6 to 0.7 | 0.6 to 0.8 |
| | | 1.6×0.8 (±0.15/±0.20) | 0.7 to 0.9 | 0.7 to 0.8 | 0.8 to 1.0 |
| GQM | 21 | 2.0×1.25 | 1.0 to 1.2 | 0.6 to 0.7 | 0.8 to 1.1 |
| GR3/GRJ/GRM/GR7 | 21 | 2.0×1.25 (within ±0.10) | 1.2 | 0.6 | 1.25 |
| | | 2.0×1.25 (±0.15) | 1.2 | 0.6 to 0.8 | 1.2 to 1.4 |
| | | 2.0×1.25 (±0.20) | 1.0 to 1.4 | 0.6 to 0.8 | 1.2 to 1.4 |
| GQM | 22 | 2.8×2.8 | 2.2 to 2.5 | 0.8 to 1.0 | 1.9 to 2.3 |
| GR3/GRJ/GRM/GR7 | 31 | 3.2×1.6 (within ±0.20) | 1.8 to 2.0 | 0.9 to 1.2 | 1.5 to 1.7 |
| | | 3.2×1.6 (±0.30) | 1.9 to 2.1 | 1.0 to 1.3 | 1.7 to 1.9 |
| GR3/GRJ/GRM | 32 | 3.2×2.5 | 2.0 to 2.4 | 1.0 to 1.2 | 1.8 to 2.3 |
| GA2/GA3/GR4 | 42 | 4.5×2.0 | 2.8 to 3.4 | 1.2 to 1.4 | 1.4 to 1.8 |
| GR3/GRJ/GRM/GA2/GA3/GR4 | 43 | 4.5×3.2 | 3.0 to 3.5 | 1.2 to 1.4 | 2.3 to 3.0 |
| GA2/GA3 | 52 | 5.7×2.8 | 4.0 to 4.6 | 1.4 to 1.6 | 2.1 to 2.6 |
| GR3/GRJ/GRM/GA2/GA3/GR4 | 55 | 5.7×5.0 | 4.0 to 4.6 | 1.4 to 1.6 | 3.5 to 4.8 |
| LLL | 15 | 0.5×1.0 | 0.15 to 0.2 | 0.2 to 0.25 | 0.7 to 1.0 |
| LLL | 1U | 0.6×1.0 | 0.20 to 0.25 | 0.25 to 0.35 | 0.7 to 1.0 |
| LLL/LLR | 18 | 0.8×1.6 | 0.2 to 0.3 | 0.3 to 0.4 | 1.4 to 1.6 |
| LLL | 21 | 1.25×2.0 | 0.4 to 0.5 | 0.4 to 0.5 | 1.4 to 1.8 |
| LLL | 31 | 1.6×3.2 | 0.6 to 0.8 | 0.6 to 0.7 | 2.6 to 2.8 |

(in mm)

**<Applicable to Part Number KR3/KRM>**

| Series | Chip Dimension Code (L/W) | Chip (L×W) | a | b | c |
|---|---|---|---|---|---|
| KRM | 21 | 2.0×1.25 | 1.0 to 1.2 | 0.6 to 0.7 | 0.8 to 1.1 |
| KRM | 31 | 3.2×1.6 | 2.2 to 2.4 | 0.8 to 0.9 | 1.0 to 1.4 |
| KR3/KRM | 55 | 5.7×5.0 | 2.6 | 2.7 | 5.6 |

(in mm)

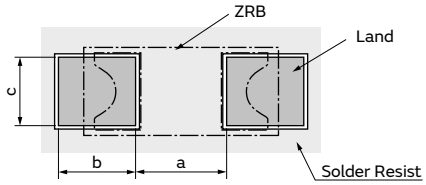
### Table 3 ZRB Series Reflow Soldering Method

| Series | Chip Dimension Code (L/W) | Chip (L×W) | a | b | c |
|---|---|---|---|---|---|
| ZRB | 15 | 1.0×0.5 | 0.4 to 0.6 | 0.4 to 0.5 | 0.5 to 0.7 |
| ZRB | 18* | 1.6×0.8 | 0.7 to 0.9 | 0.7 to 0.8 | 0.8 to 1.0 |

(in mm)

*If distance between parts is too short, there is risk to cause electrical short. Please confirm the mounting pitch (distance between centers of parts) has 1.275mm or more. (ZRB18 only)

[Land for ZRB Series]




### Table 4 LLA Series Reflow Soldering Method

| Series | Chip Dimension Code (L/W) | Chip (L×W) | a | b | c | p |
|---|---|---|---|---|---|---|
| LLA | 18 | 1.6×0.8 | 0.3 to 0.4 | 0.25 to 0.35 | 0.15 to 0.25 | 0.4 |
| LLA | 21 | 2.0×1.25 | 0.5 to 0.7 | 0.35 to 0.6 | 0.2 to 0.3 | 0.5 |

(in mm)

Continued on the following page.↗

# Notice

Continued from the preceding page.↘

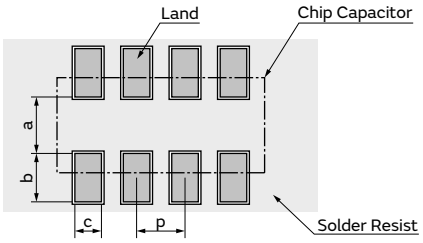
**Table 5 LLM Series Reflow Soldering Method**

| Series | Chip Dimension Code (L/W) | Chip (L×W) | a | b, b' | c, c' | d | e | f | p |
|---|---|---|---|---|---|---|---|---|---|
| **LLM** | **21** | 2.0×1.25 | 0.6 to 0.8 | (0.3 to 0.5) | 0.3 | 2.0 to 2.6 | 1.3 to 1.8 | 1.4 to 1.6 | 0.5 |

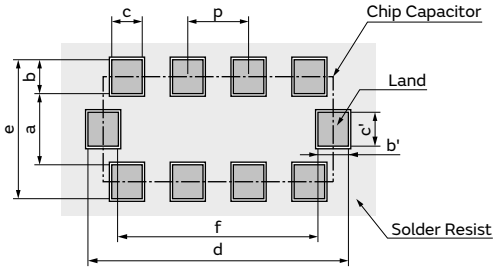
b=(c-e)/2, b'=(d-f)/2

(in mm)

[Land for LLA Series]



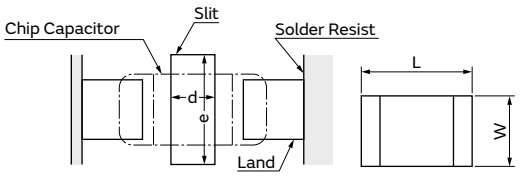

[Land for LLM Series]




**<Applicable to beyond Rated Voltage of 200VDC>**

2-2. Dimensions of Slit (Example)

Preparing the slit helps flux cleaning and resin coating on the back of the capacitor.
However, the length of the slit design should be as short as possible to prevent mechanical damage in the capacitor.
A longer slit design might receive more severe mechanical stress from the PCB.
Recommended slit design is shown in the Table.




| L×W | d | e |
|---|---|---|
| 1.6×0.8 | – | – |
| 2.0×1.25 | – | – |
| 3.2×1.6 | 1.0 to 2.0 | 3.2 to 3.7 |
| 3.2×2.5 | 1.0 to 2.0 | 4.1 to 4.6 |
| 4.5×2.0 | 1.0 to 2.8 | 3.6 to 4.1 |
| 4.5×3.2 | 1.0 to 2.8 | 4.8 to 5.3 |
| 5.7×2.8 | 1.0 to 4.0 | 4.4 to 4.9 |
| 5.7×5.0 | 1.0 to 4.0 | 6.6 to 7.1 |

(in mm)

Continued on the following page.↗

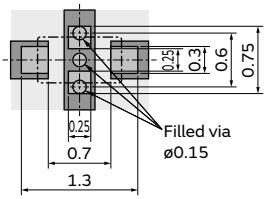
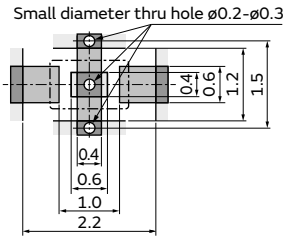
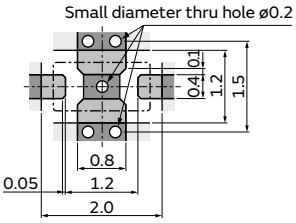
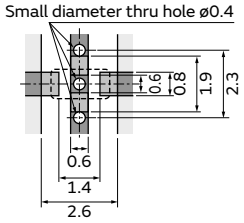
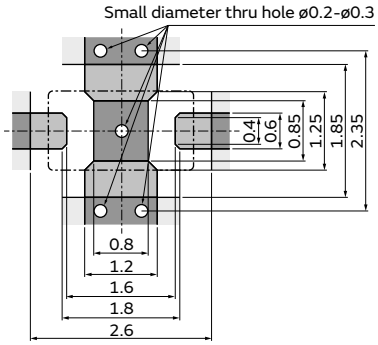
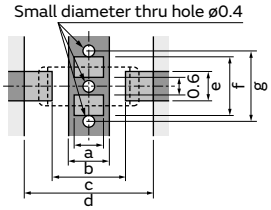
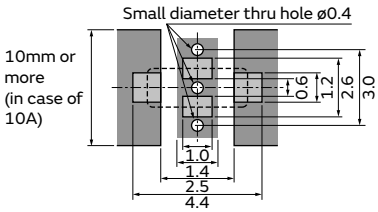
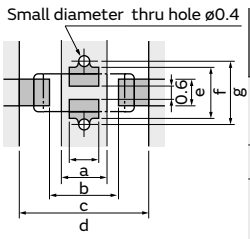
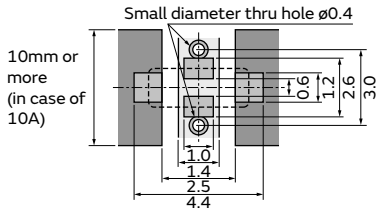
# Notice

Continued from the preceding page.↘

**<Applicable to NFM Series>**

Land Pattern + Solder Resist　Land Pattern　Solder Resist

(in mm)

| Series | Land Dimensions |
|---|---|
| **NFM15CC**<br>**NFM15PC**<br>**NFM18CC**<br>**NFM18PC**<br>**NFM18PS**<br>**NFM21CC**<br>**NFM21PC**<br>**NFM21PS** | ● Reflow Soldering<br>NFM15CC/NFM15PC<br>  <br>NFM18CC/NFM18PC<br>  <br>NFM18PS<br>  <br>NFM21CC/NFM21PC<br>  <br>NFM21PS<br>  |
| **NFM3DCC**<br>**NFM3DPC**<br>**NFM31PC**<br>**NFM31KC**<br>**NFM41CC**<br>**NFM41PC** | ● Reflow Soldering　Chip mounting side<br>NFM3DCC/NFM3DPC/NFM31PC/NFM41CC/NFM41PC<br>  <br>NFM31KC*1<br>  <br>*1 For large current design, width of signal land pattern should be wider not less than 1mm per 1A (1mm/A). For example, in case of 10A, signal land pattern width should be 10mm or more. (1mm/A*10A=10mm)<br><br>● Flow Soldering　Chip mounting side<br>  <br>NFM31KC*1<br>  <br>*1 For large current design, width of signal land pattern should be wider not less than 1mm per 1A (1mm/A). For example, in case of 10A, signal land pattern width should be 10mm or more. (1mm/A*10A=10mm) |

| Part Number | Size (mm) | | | | | | |
|---|---|---|---|---|---|---|---|
| | a | b | c | d | e | f | g |
| **NFM3DCC NFM3DPC** | 1.0 | 1.4 | 2.5 | 4.4 | 1.0 | 2.0 | 2.4 |
| **NFM31PC** | 1.0 | 1.4 | 2.5 | 4.4 | 1.2 | 2.6 | 3.0 |
| **NFM41CC NFM41PC** | 1.5 | 2.0 | 3.5 | 6.0 | 1.2 | 2.6 | 3.0 |

| Part Number | Size (mm) | | | | | | |
|---|---|---|---|---|---|---|---|
| | a | b | c | d | e | f | g |
| **NFM3DCC NFM3DPC** | 1.0 | 1.4 | 2.5 | 4.4 | 1.0 | 2.0 | 2.4 |
| **NFM31PC** | 1.0 | 1.4 | 2.5 | 4.4 | 1.2 | 2.6 | 3.0 |
| **NFM41CC NFM41PC** | 1.5 | 2.0 | 3.5 | 6.0 | 1.2 | 2.6 | 3.0 |

Continued on the following page.↗

# Notice

Continued from the preceding page.↘

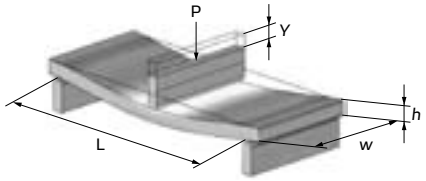
3. Board Design

When designing the board, keep in mind that the amount of strain which occurs will increase depending on the size and material of the board.

[Relationship with amount of strain to the board thickness, length, width, etc.]

$$\varepsilon = \frac{3PL}{2Ewh^2}$$ Relationship between load and strain

ε: Strain on center of board (μst)
L: Distance between supporting points (mm)
*w*: Board width (mm)
*h*: Board thickness (mm)
*E*: Elastic modulus of board (N/m$^2$=Pa)
Y: Deflection (mm)
P: Load (N)




When the load is constant, the following relationship can be established.
· As the distance between the supporting points (L) increases, the amount of strain also increases.
→Reduce the distance between the supporting points.
· As the elastic modulus (*E*) decreases, the amount of strain increases.
→Increase the elastic modulus.
· As the board width (*w*) decreases, the amount of strain increases.
→Increase the width of the board.
· As the board thickness (*h*) decreases, the amount of strain increases.
→Increase the thickness of the board.
Since the board thickness is squared, the effect on the amount of strain becomes even greater.

**2. Adhesive Application**

If you want to temporarily attach the capacitor to the board using an adhesive agent before soldering the capacitor, first be sure that the conditions are appropriate for affixing the capacitor. If the dimensions of the land, the type of adhesive, the amount of coating, the contact surface area, the curing temperature, or other conditions are inappropriate, the characteristics of the capacitor may deteriorate.

1. Selection of Adhesive

1-1. Depending on the type of adhesive, there may be a decrease in insulation resistance. In addition, there is a chance that the capacitor might crack from contractile stress due to the difference in the contraction rate of the capacitor and the adhesive.

1-2. If there is not enough adhesive, the contact surface area is too small, or the curing temperature or curing time are inadequate, the adhesive strength will be insufficient and the capacitor may loosen or become disconnected during transportation or soldering.

If there is too much adhesive, for example if it overflows onto the land, the result could be soldering defects, loss of electrical connection, insufficient curing, or slippage after the capacitor is mounted.

Furthermore, if the curing temperature is too high or the curing time is too long, not only will the adhesive strength be reduced, but solderability may also suffer due to the effects of oxidation on the terminations (outer electrodes) of the capacitor and the land surface on the board.

(1) Selection of Adhesive

Epoxy resins are a typical class of adhesive.

To select the proper adhesive, consider the following points.

1) There must be enough adhesive strength to prevent the component from loosening or slipping during the mounting process.
2) The adhesive strength must not decrease when exposed to moisture during soldering.
3) The adhesive must have good coatability and shape retention properties.
4) The adhesive must have a long pot life.
5) The curing time must be short.
6) The adhesive must not be corrosive to the exterior of the capacitor or the board.
7) The adhesive must have good insulation properties.
8) The adhesive must not emit toxic gases or otherwise be harmful to health.
9) The adhesive must be free of halogenated compounds.

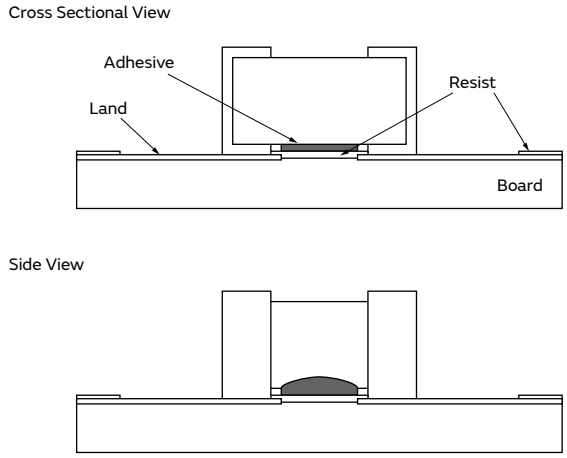
Continued on the following page.↗

# Notice

Continued from the preceding page.↘

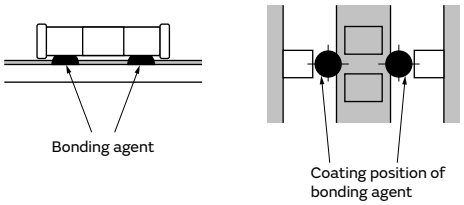
(2) Use the following illustration as a guide to the amount of adhesive to apply.

[Sizes: 0603(1608M) / 0805(2012M) / 1206(3216M)]




**<Applicable to NFM Series>**

[Sizes: 1205(3212M) / 1206(3216M) / 1806(4516M)]




### 3. Adhesive Curing

1. Insufficient curing of the adhesive can cause chips to disconnect during flow soldering and causes deterioration in the insulation resistance between the terminations due to moisture absorption.

Control curing temperature and time in order to prevent insufficient hardening.

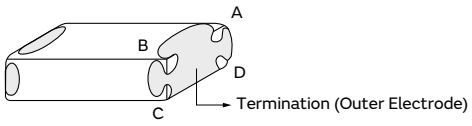
### 4. Flux for Flow Soldering

1. An excessive amount of flux generates a large quantity of flux gas, which can cause a deterioration of solderability, so apply flux thinly and evenly throughout. (A foaming system is generally used for flow soldering.)
2. Flux containing too high a percentage of halide may cause corrosion of the terminations unless there is sufficient cleaning. Use flux with a halide content of 0.1% max.
3. Strong acidic flux can corrode the capacitor and degrade its performance.
   Please check the quality of capacitor after mounting.

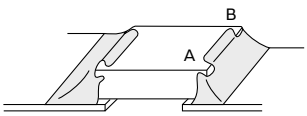
### 5. Flow Soldering

● Set temperature and time to ensure that leaching of the terminations does not exceed 25% of the chip end area as a single chip (full length of the edge A-B-C-D shown at right) and 25% of the length A-B shown as mounted on substrate.

[As a Single Chip]




[As Mounted on Substrate]




### 6. Reflow Soldering

The flux in the solder paste contains halogen-based substances and organic acids as activators.
Strong acidic flux can corrode the capacitor and degrade its performance.

Please check the quality after mounting, please use.

Continued on the following page.↗

# Notice

Continued from the preceding page.↘

### 7. Washing

1. Please evaluate the capacitor using actual cleaning equipment and conditions to confirm the quality, and select the solvent for cleaning.
2. Unsuitable cleaning may leave residual flux or other foreign substances, causing deterioration of electrical characteristics and the reliability of the capacitors.

### 8. Coating

1. A crack may be caused in the capacitor due to the stress of the thermal contraction of the resin during curing process.
   The stress is affected by the amount of resin and curing contraction.
   Select a resin with low curing contraction.
   The difference in the thermal expansion coefficient between a coating resin or a molding resin and the capacitor may cause the destruction and deterioration of the capacitor such as a crack or peeling, and lead to the deterioration of insulation resistance or dielectric breakdown.
   Select a resin for which the thermal expansion coefficient is as close to that of the capacitor as possible.
   A silicone resin can be used as an under-coating to buffer against the stress.
2. Select a resin that is less hygroscopic.
   Using hygroscopic resins under high humidity conditions may cause the deterioration of the insulation resistance of a capacitor.
   An epoxy resin can be used as a less hygroscopic resin.
3. The halogen system substance and organic acid are included in coating material, and a chip corrodes by the kind of Coating material.
   Do not use strong acid type.

**<Applicable to ZRB Series>**

4. Loss suppress acoustic noise may be caused in ZRB series due to the resin during curing process. Please contact our sales representative or product engineers on the apply to resin during curing process.

## Other

### 1. Transportation

1. The performance of a capacitor may be affected by the conditions during transportation.
   1-1. The capacitors shall be protected against excessive temperature, humidity, and mechanical force during transportation.
   (1) Climatic condition
   - low air temperature: -40°C
   - change of temperature air/air: -25°C/+25°C
   - low air pressure: 30 kPa
   - change of air pressure: 6 kPa/min.

   (2) Mechanical condition
   Transportation shall be done in such a way that the boxes are not deformed and forces are not directly passed on to the inner packaging.

   1-2. Do not apply excessive vibration, shock, or pressure to the capacitor.
   (1) When excessive mechanical shock or pressure is applied to a capacitor, chipping or cracking may occur in the ceramic body of the capacitor.
   (2) When the sharp edge of an air driver, a soldering iron, tweezers, a chassis, etc. impacts strongly on the surface of the capacitor, the capacitor may crack and short-circuit.

   1-3. Do not use a capacitor to which excessive shock was applied by dropping, etc.
   A capacitor dropped accidentally during processing may be damaged.

### 2. Characteristics Evaluation in the Actual System

1. Evaluate the capacitor in the actual system, to confirm that there is no problem with the performance and specification values in a finished product before using.
2. Since a voltage dependency and temperature dependency exists in the capacitance of high dielectric type ceramic capacitors, the capacitance may change depending on the operating conditions in the actual system. Therefore, be sure to evaluate the various characteristics, such as the leakage current and noise absorptivity, which will affect the capacitance value of the capacitor.
3. In addition, voltages exceeding the predetermined surge may be applied to the capacitor by the inductance in the actual system. Evaluate the surge resistance in the actual system as required.

**<Applicable to NFM Series>**

4. The effects of noise suppression can vary depending on the usage conditions, including differences in the circuit or IC to be used, the type of noise, the shape of the pattern to be mounted, and the mounting location. Be sure to verify the effect on the actual device in advance.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Murata:

GRM216R71H472KA29D GRM216R71H222KA29D GRM216R11H472KD01D GRM216R11H822KD01D GRM64ER73A223KY56B GRM1885C2A471JA01D GRM32RR71H105KA36L GRM1885C2A221JA01D GRM1885C2A271JA01D GRM185R61A105KE26D GRM188B11H223KA01D GRM216B11H272KA01D GRM216B11H222KA01D GRM32RR71E225MC01L GRM216B11H822KA01D GRM219B11A105KC01D GRM216B11H472KA01D GRM188B11A154KC01D GRM32RR71H105KA30L GRM216R71H681KA01L GRM188B11H123KA01D GRM188B11H153KA01D GRM216B11H562KA01D GRM216B11H152KA01D GRM1555C1H101FD01D GRM185R61A105KE36D GRM31M5C2A102JZ26L GRM31M5C2A102JZ26B GRM31M5C2A102JZ26F GRM43MR71C564MD01L GRM319R71H183KD01F GRM219R72A102KD12D GRM32MR72A333MA01L GRM32MR72A333MA01K GRM216R71H392MA01D GRM216R71H392MA01L GRM32CF51A226ZA01K GRM216R71H182MA01D GRM319E41H104MA15K GRM21BR71C105KC27L GRM188R71C104KC27D GRM31MR71C105KC27L GRM216R71H682MA01D GRM31CR60J106KA01K GRM188B11C823KC01D GRM185C80J105KE26D GRM3195C2A221FZ26D GRM219E41H104MA16J GRM216E41H103MA01K GRM216E41H103MA01B GRM31MR72H102KY44L GRM6DMR71H564JD23K GRM216E41H223MA01K GRM216E41H223MA01D GRM216E41H223MA01B GRM42A7U3F820JW31L GRM31NR72H472KY44L GRM316E41H473MA01D GRM316E41H473MA01B GRM188B11C333KA01E GRM188B11C333KA01D GRM188B11C103KA01E GRM188B11C563KA01D GRM319R71E684KC01L GRM188B11C473KA01D GRM188B11C473KA01S GRM188B11C823KA01D GRM188R61C474KA12D GRM319E41H224ZA01D GRM31AR32J221KW01D GRM188R61C334KA12D GRM319R61C335KA12D GRM21BF51C474ZA26L GRM31CR60J106MA01K GRM42RR7YJ102KYX8L GRM188R61A105MA61D GRM2195C2A7R5CZ01B GRM2195C2A7R5CZ01J GRM2195C2A7R5CZ01K GRM188R71E153KA26D GRM216R71H391KA01K GRM21BR70J225MA01L GRM21B5C1H182JD50L GRM216R71H391KA01L GRM216R71H391KA01B GRM216R71H391KA01J GRM188R71C683MA01D GRM216R71H681KA01F GRM216R71H681KA01B GRM216R71H681KA01J GRM216R71H681KA01K GRM2161C1H391JZ01D GRM155R71A393KA01E GRM2165C1H910JA01D GRM2161C1H181JZ01D GRM188R71E223KA26D GRM188R11H471KA01D GRM2165C1H5R6DD01J GRM3165C1H5R6DD01D GRM3295C1H222JD51D

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- View GRM1555C1H180FZ01D on WIN SOURCE
- Murata Electronics North America Information

## Optimize Your Supply Chain with WIN SOURCE Solutions

- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management