



**THE DATASHEET OF
MEM1608D401RT001**



3-terminal filters
High-speed signal line
MEM-D series



MEM1608D type



FEATURES

- Multilayer chip EMC filter with an L-type circuit.
- Monolithic structure makes it highly reliable.
- Closed magnetic circuit structure makes it possible to achieve high-density mounting without crosstalk.
- Has sharp attenuation characteristics with excellent EMC suppression.
- Covers a wide frequency.
- MEM1608D is a coil type.
- Low profile type with a height of 0.6mm.
- Operating temperature range: -40 to +85°C

APPLICATION

- PCs and peripheral devices, VTRs, TVs, printers, game machines, etc.
- Application guides: [Smart phones/tablets](#)

PART NUMBER CONSTRUCTION

| | | | | | |
|-------------|------------------------------------|-----------------------|------------------------|-----------------|---------------|
| MEM | 1608 | D | 201R | T | 001 |
| Series name | LxWxT dimensions 1.6x0.8x0.6 mm | Product internal code | Cutoff frequency (MHz) | Packaging style | Internal code |

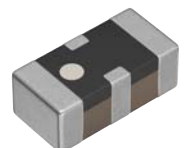
CHARACTERISTICS SPECIFICATION TABLE

| Cutoff frequency (MHz) | Rated voltage (V)max. | Rated current (mA)max. | Part No. |
|------------------------|-----------------------|------------------------|----------------------------------|
| 200 | 6.3 | 200 | MEM1608D201RT001 |
| 300 | 6.3 | 200 | MEM1608D301RT001 |
| 400 | 6.3 | 200 | MEM1608D401RT001 |
| 500 | 6.3 | 200 | MEM1608D501RT001 |

Measurement equipment

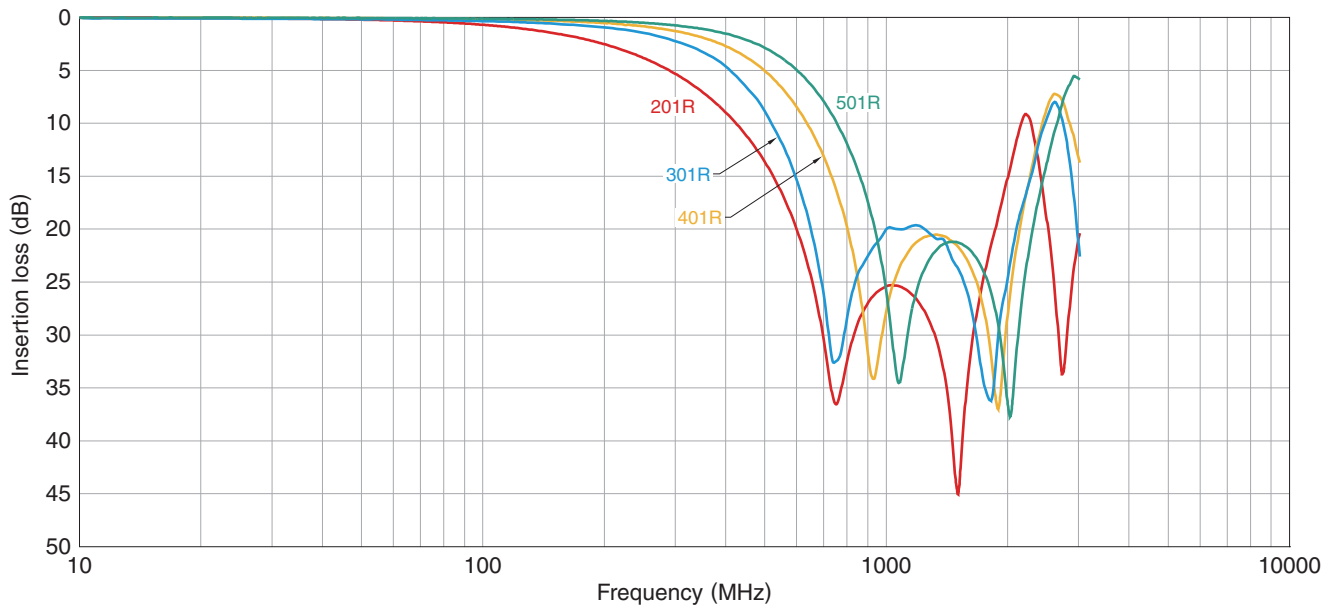
| Measurement item | Product No. | Manufacturer |
|---------------------------|-------------|-----------------------|
| Frequency characteristics | N5230C | Keysight Technologies |

* Equivalent measurement equipment may be used.



MEM1608D type

INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



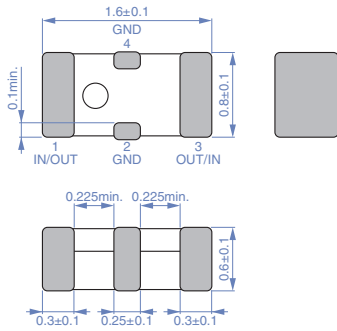
Measurement equipment

| Product No. | Manufacturer |
|-------------|-----------------------|
| N5230C | Keysight Technologies |

* Equivalent measurement equipment may be used.

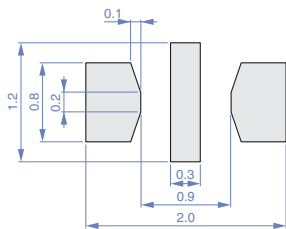
MEM1608D type

SHAPE & DIMENSIONS



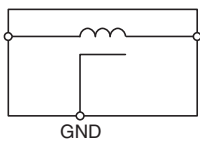
Dimensions in mm

RECOMMENDED LAND PATTERN

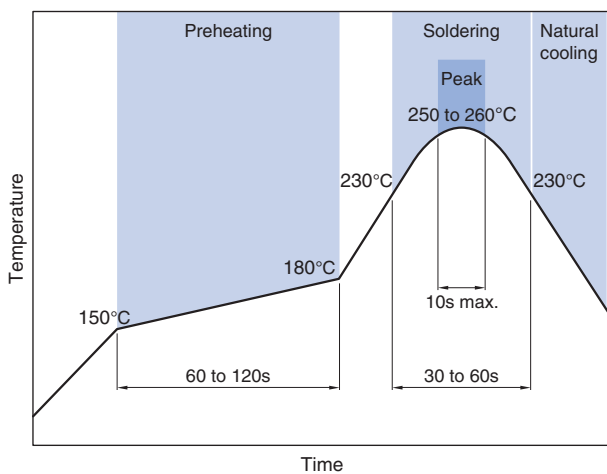


Dimensions in mm

CIRCUIT DIAGRAM

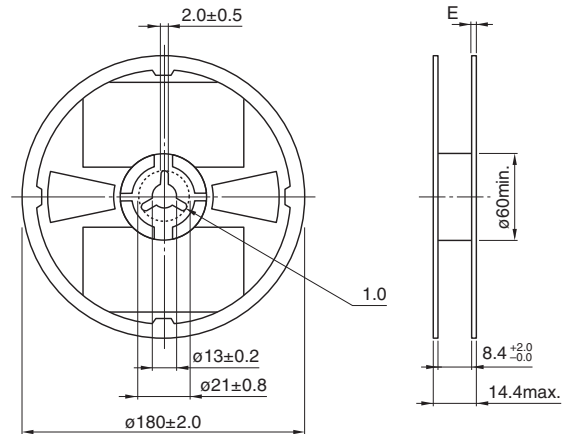


RECOMMENDED REFLOW PROFILE



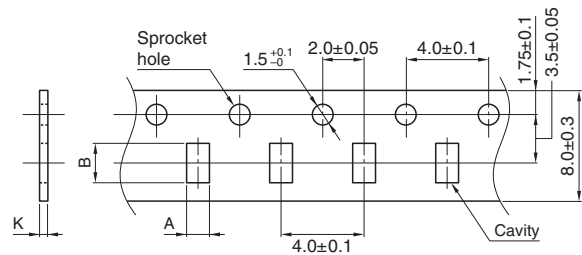
PACKAGING STYLE

REEL DIMENSIONS



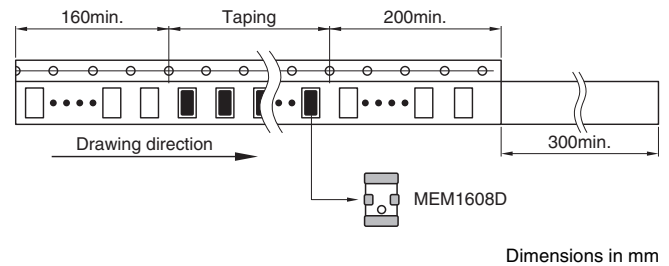
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

| Type | A | B | K |
|----------|-----------|-----------|----------|
| MEM1608D | 1.10±0.20 | 1.90±0.20 | 0.90max. |



Dimensions in mm

PACKAGE QUANTITY

| | |
|------------------|----------------|
| Package quantity | 4,000 pcs/reel |
|------------------|----------------|

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

| Operating temperature range | Storage temperature range* | Individual weight |
|-----------------------------|----------------------------|-------------------|
| -40 to +85 °C | -40 to +85 °C | 3.5 mg |

* The storage temperature range is for after the assembly.

REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.

REMINDERS

- The storage period is less than 12 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH or less).
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.
The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.
If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Carefully lay out the coil for the circuit board design of the non-magnetic shield type.
A malfunction may occur due to magnetic interference.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- Do not expose the products to magnets or magnetic fields.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.
The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.



- (1) Aerospace/aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View MEM1608D401RT001 on WIN SOURCE](#)
-  [TDK Corporation](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

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