



**THE DATASHEET OF
ACM4532-102-3P-T**



Common Mode Filters

For high-speed differential signal line/general signal line

ACM series

| | | |
|-------|---------|--------------|
| Type: | ACM2012 | [0805 inch]* |
| | ACM2520 | [1008 inch] |
| | ACM3225 | [1210 inch] |
| | ACM4532 | [1812 inch] |

* Dimensions Code [EIA]

Issue date: September 2011

- All specifications are subject to change without notice.
 - Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
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Common Mode Filters

For High-speed Differential Signal Line / General Signal Line

Conformity to RoHS Directive

ACM Series ACM2012, 2520, 3225, 4532

FEATURES

- Although greatly miniaturized, this wire-wound chip-type filter maintains the characteristics needed for a common mode filter. Common mode impedance is 1000Ω [at 100MHz], so this filter is greatly effective in supporting noise.
- Almost no affect upon even high speed signals since differential mode impedance is kept low.
- This series includes both 2-line and 3-line types. They are used for various types of circuits and noise.

APPLICATIONS

- Used for radiation noise suppression for any electronic devices.
- Used to counter common mode noise affecting signals within high-speed lines.
- USB line for personal computers and peripheral equipment.
- IEEE1394 line for personal computers, DVC, STB, etc.
- LVDS, panel link line for liquid crystal display panels.

TEMPERATURE RANGES

| | |
|----------------------|--------------|
| Operating | -25 to +85°C |
| Storage(After mount) | -25 to +85°C |

PACKAGING STYLE AND QUANTITIES

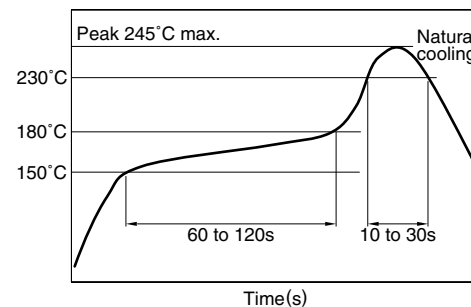
| Packaging style | Type | Reel | Quantity |
|-----------------|---------|------------------|-------------------|
| Taping | ACM2012 | ø180mm | 2000 pieces/reel |
| | | ø330mm | 10000 pieces/reel |
| | ACM2520 | ø180mm | 2000 pieces/reel |
| | | ø330mm | 10000 pieces/reel |
| | ACM3225 | ø180mm | 1000 pieces/reel |
| | | ø330mm | 5000 pieces/reel |
| ACM4532 | ø180mm | 500 pieces/reel | |
| | ø330mm | 2000 pieces/reel | |

PRODUCT IDENTIFICATION

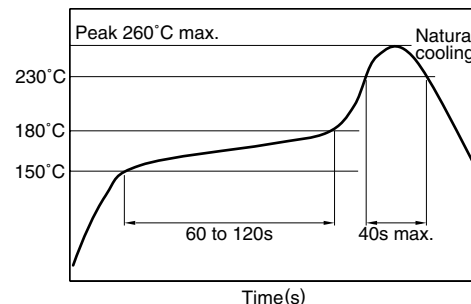
| | | | | | |
|-----|------|-------|------|-----|-----|
| ACM | 2012 | - 900 | - 2P | - T | □□□ |
| (1) | (2) | (3) | (4) | (5) | (6) |

- (1) Series name
- (2) Dimensions L×W
2012: 2.0×1.2mm
- (3) Impedance[at 100MHz]
900: 90Ω
- (4) Number of line
2P: 2-line
3P: 3-line
- (5) Packaging style
T: ø180mm reel taping
TL: ø330mm reel taping
- (6) TDK internal code

RECOMMENDED SOLDERING CONDITIONS RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



REFLOW PROFILE FOR SOLDER HEAT RESISTANCE



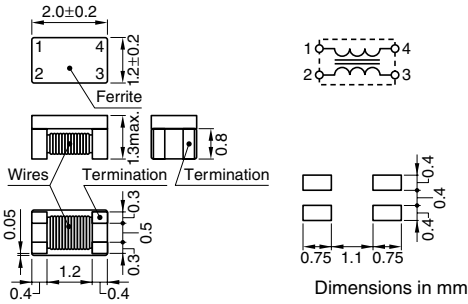
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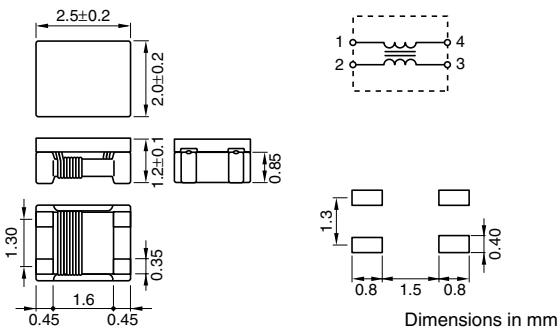
SHAPES AND DIMENSIONS/CIRCUIT DIAGRAMS/RECOMMENDED PC BOARD PATTERNS

2-LINE TYPE

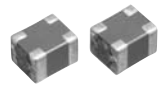
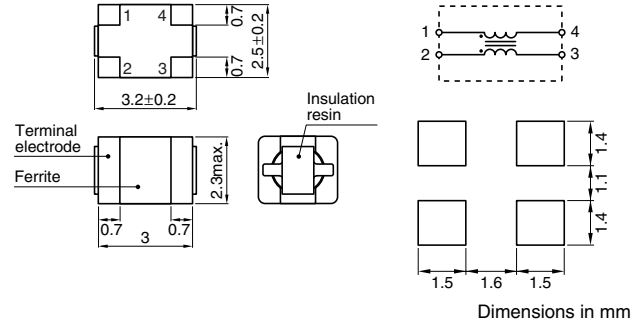
ACM2012-2P



ACM2520-2P

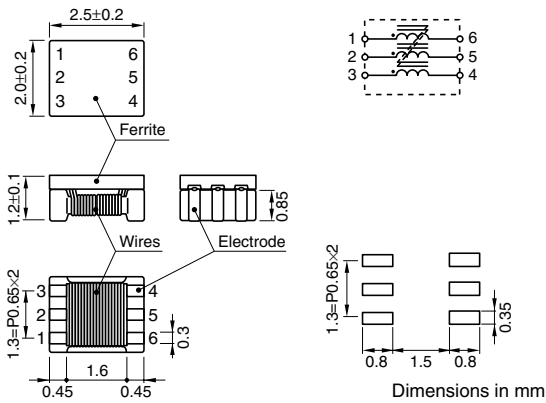


ACM3225-2P

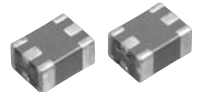
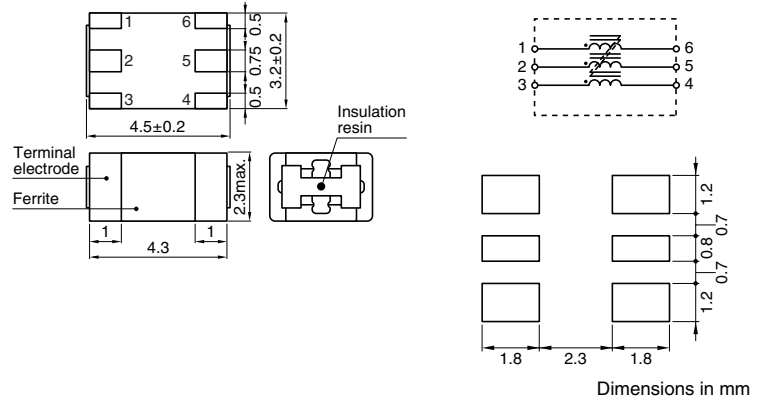


3-LINE TYPE

ACM2520-3P



ACM4532-102-3P



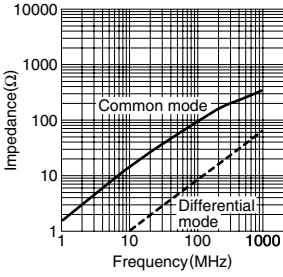
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ELECTRICAL CHARACTERISTICS

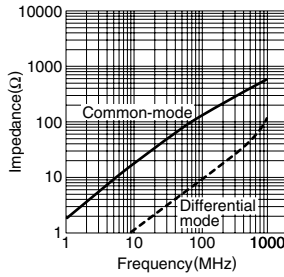
| Part No. | Impedance (Ω)typ.[100MHz] | DC resistance (Ω)max.[per 1 line] | Rated voltage E _{dc} (V)max. | Rated current I _{dc} (A)max. |
|----------------|---------------------------------------|---|--|--|
| 2-LINE | | | | |
| ACM2012-900-2P | 90 | 0.19 | 50 | 0.4 |
| ACM2012-121-2P | 120 | 0.22 | 50 | 0.37 |
| ACM2012-201-2P | 200 | 0.25 | 50 | 0.35 |
| ACM2012-361-2P | 360 | 0.5 | 50 | 0.22 |
| ACM2520-301-2P | 300 | 0.35 | 20 | 0.4 |
| ACM2520-451-2P | 450 | 0.4 | 20 | 0.35 |
| ACM2520-601-2P | 600 | 0.45 | 20 | 0.3 |
| ACM2520-102-2P | 1000 | 0.9 | 20 | 0.2 |
| ACM3225-800-2P | 80 | 0.15 | 20 | 0.4 |
| ACM3225-161-2P | 160 | 0.2 | 20 | 0.35 |
| ACM3225-271-2P | 270 | 0.3 | 20 | 0.3 |
| ACM3225-102-2P | 1000 | 0.5 | 20 | 0.2 |
| 3-LINE | | | | |
| ACM2520-801-3P | 800 | 1.6 | 20 | 0.15 |
| ACM4532-102-3P | 1000 | 0.6 | 20 | 0.2 |

TYPICAL ELECTRICAL CHARACTERISTICS
IMPEDANCE vs. FREQUENCY CHARACTERISTICS
2-LINE

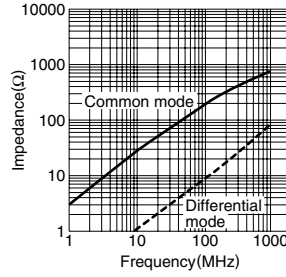
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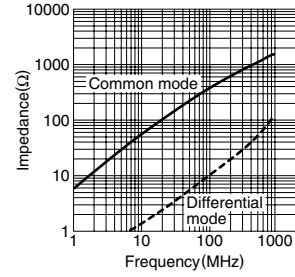
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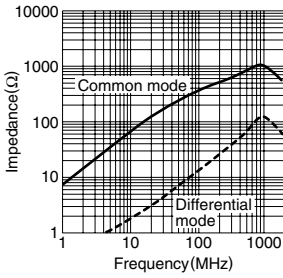
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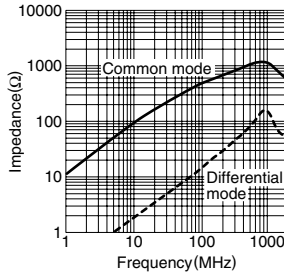
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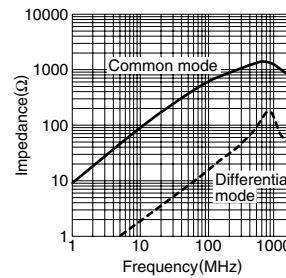
ACM2520-301-2P



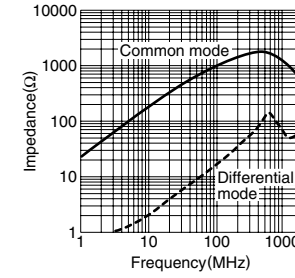
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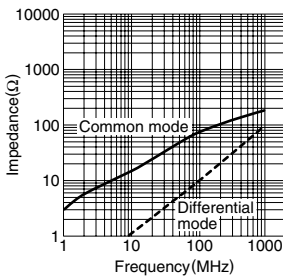
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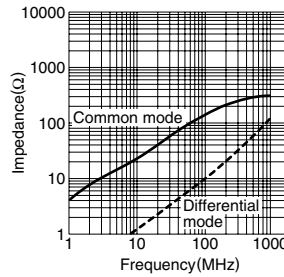
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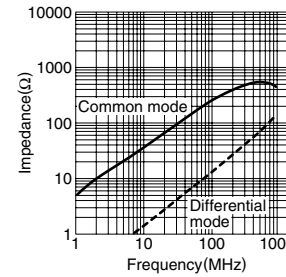
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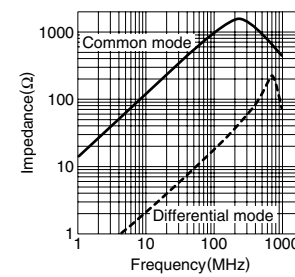
ACM3225-161-2P



ACM3225-271-2P

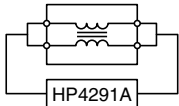


ACM3225-102-2P

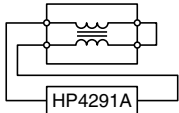


MEASURING CIRCUITS
2-LINE

Common mode



Differential mode



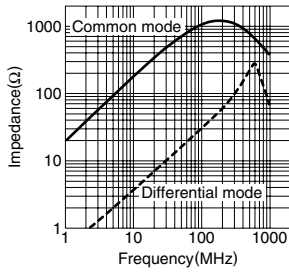
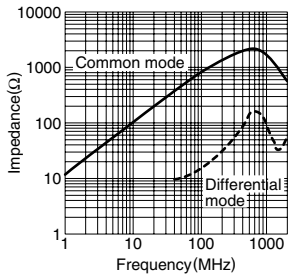
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TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS

3-LINE

ACM2520-801-3P

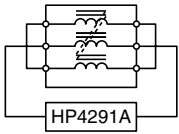
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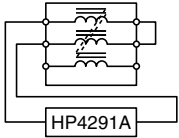
MEASURING CIRCUITS

3-LINE

Common mode





Differential mode



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-  [TDK Corporation](#) Information

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