

## 3-terminal Filters(SMD) For Wide-band

Conformity to RoHS Directive

### MEM Series MEM2012P Type

#### FEATURES

- Multilayer chip EMC filter that is small and low-profile due to the use of a  $\pi$ -type circuit.
- Entirely monolithic structure results in high reliability.
- Due to closed magnetic circuit architecture, high-density installation becomes possible, and crosstalk generation is prevented.
- Steep attenuation characteristic plot. Highly effective noise suppression.
- Covers a wide range of frequencies.
- $\pi$ -type circuit with 1 coil /2 capacitors construction.

#### APPLICATIONS

Computers, computer peripherals, VCRs, TVs, car audio equipment, printers, game machines, etc.

#### TEMPERATURE RANGES

|                   |              |
|-------------------|--------------|
| Operating/Storage | -40 to +85°C |
|-------------------|--------------|

#### PRODUCT IDENTIFICATION

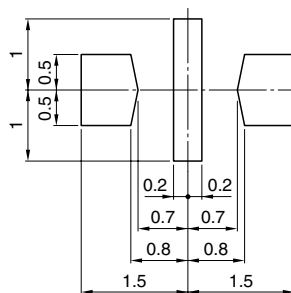
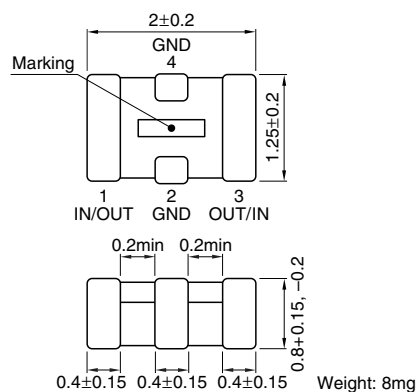
|     |      |     |      |     |
|-----|------|-----|------|-----|
| MEM | 2012 | P   | 10R0 | T   |
| (1) | (2)  | (3) | (4)  | (5) |

- (1)Series name
- (2)Dimensions L×W
- (3) $\pi$ -type circuit
- (4)Cutoff frequency 10R0:10MHz
- (5)Packaging style T:Taping

#### PACKAGING STYLE AND QUANTITIES

| Packaging style | Quantity           |
|-----------------|--------------------|
| Taping          | 4000 pieces / reel |

#### SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



Dimensions in mm

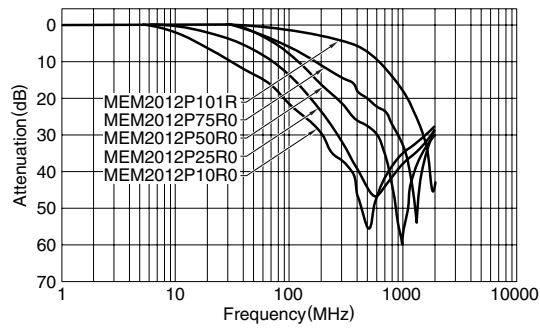
#### ELECTRICAL CHARACTERISTICS

| Part No.     | Cutoff frequency (MHz) | Attenuation (dB)min. | Rated voltage Edc(V)max. | Rated current Idc(mA)max. |
|--------------|------------------------|----------------------|--------------------------|---------------------------|
| MEM2012P10R0 | 10                     | 20[0.2 to 2GHz]      | 12                       | 200                       |
| MEM2012P25R0 | 25                     | 20[0.3 to 2GHz]      | 12                       | 200                       |
| MEM2012P50R0 | 50                     | 20[0.4 to 2GHz]      | 12                       | 200                       |
| MEM2012P75R0 | 75                     | 20[0.7 to 2GHz]      | 12                       | 200                       |
| MEM2012P101R | 100                    | 20[1.5 to 2GHz]      | 12                       | 200                       |

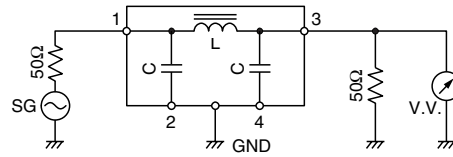
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- Please contact our Sales office when your application are considered the following:  
The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

• All specifications are subject to change without notice.

### TYPICAL ELECTRICAL CHARACTERISTICS ATTENUATION vs. FREQUENCY CHARACTERISTICS



### MEASURING CIRCUIT



### RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING

