3-terminal Filters(SMD) **For Signal Line**

Conformity to RoHS Directive

002-03 / 20061022 / e9616_mem_t

*****<u>⊗</u>TDK*

MEM Series MEM2012T Type

FEATURES

- Multilayer chip EMC filter utilizing a T-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.
- MEM2012T is a coil type EMC filter.

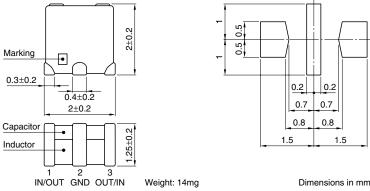
APPLICATIONS

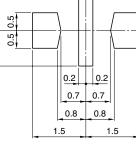
Computer and computer peripherals, VCRs, TVs, car audio equipment, printers, game machines, etc.

TEMPERATURE RANGES

Operating/Storage -40 to +85°C

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN





ELECTRICAL CHARACTERISTICS

| Part No. | Cutoff frequency (MHz) | Insertion loss (dB)min. | Rated voltage Edc(V)max. | Rated current (mA)max. |
|--------------|---------------------------|----------------------------|-----------------------------|------------------------|
| MEM2012T10R0 | 10 | 20[40 to 900MHz] | 10 | 100 |
| MEM2012T25R0 | 25 | 20[80MHz to 1GHz] | 10 | 150 |
| MEM2012T50R0 | 50 | 20[150MHz to 1.2GHz] | 10 | 150 |
| MEM2012T75R0 | 75 | 20[300MHz to 1.7GHz] | 10 | 250 |
| MEM2012T101R | 100 | 20[400MHz to 1.7GHz] | 10 | 250 |

· 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.

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PRODUCT IDENTIFICATION

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

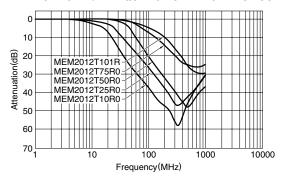
(1)Series name (2)Dimensions L×W (3)T-type circuit (4)Cutoff freguency 10R0:10MHz (5) Packaging style T: Taping

PACKAGING STYLE AND QUANTITIES

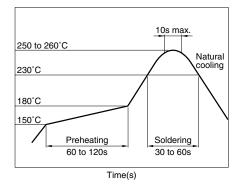
| Packaging style | Quantity |
|-----------------|------------------|
| Taping | 1000 pieces/reel |

&TDK

TYPICAL ELECTRICAL CHARACTERISTICS ATTENUATION vs. FREQUENCY CHARACTERISTICS



RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



MEASURING CIRCUIT

