



# THE DATASHEET OF MEM2012T201RT0S1

# 3-terminal Filters(SMD) For Signal Line

Conformity to RoHS Directive

## MEM Series MEM2012T-S1 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.
- This product is low profile type with the height of 0.85mm.

### APPLICATIONS

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

### TEMPERATURE RANGES

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

### PRODUCT IDENTIFICATION

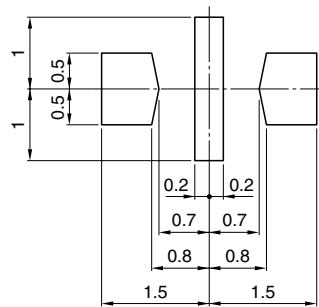
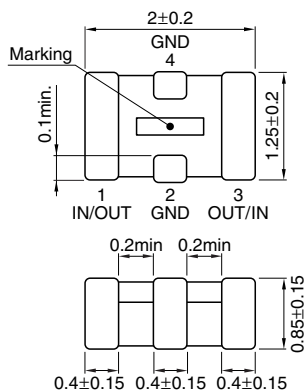
|     |      |     |      |     |
|-----|------|-----|------|-----|
| MEM | 2012 | T   | 25R0 | T   |
| (1) | (2)  | (3) | (4)  | (5) |

- (1) Series name  
 (2) Dimensions L×W  
 (3) T-type circuit  
 (4) Cutoff frequency 25R0: 25MHz  
 (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

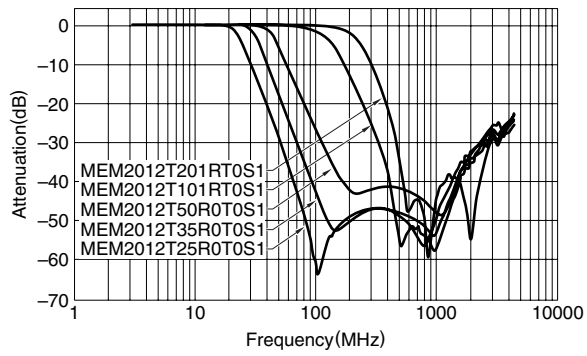
| Part No.         | Cutoff frequency (MHz) | Insertion loss (dB)min. | Rated voltage Edc(V)max. | Rated current (mA)max. |
|------------------|------------------------|-------------------------|--------------------------|------------------------|
| MEM2012T25R0T0S1 | 25                     | 30[70MHz to 2GHz]       | 10                       | 100                    |
| MEM2012T35R0T0S1 | 35                     | 30[90MHz to 2GHz]       | 10                       | 100                    |
| MEM2012T50R0T0S1 | 50                     | 30[200MHz to 2GHz]      | 10                       | 100                    |
| MEM2012T101RT0S1 | 100                    | 30[400MHz to 2GHz]      | 10                       | 250                    |
| MEM2012T201RT0S1 | 200                    | 30[530MHz to 2.5GHz]    | 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.)

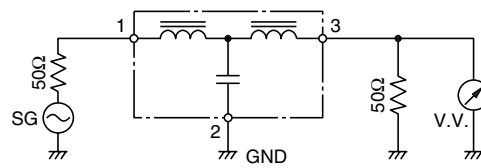
- All specifications are subject to change without notice.

## TYPICAL ELECTRICAL CHARACTERISTICS

### ATTENUATION vs. FREQUENCY CHARACTERISTICS

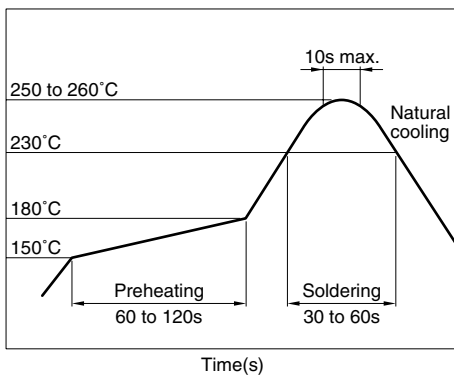


### MEASURING CIRCUIT



## RECOMMENDED SOLDERING CONDITION

### REFLOW SOLDERING



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

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⊖ [TDK Corporation](#) Information

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