



**THE DATASHEET OF
MEM2012T50R0T0S1**



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

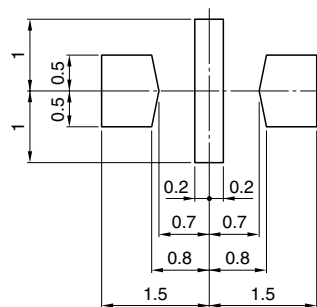
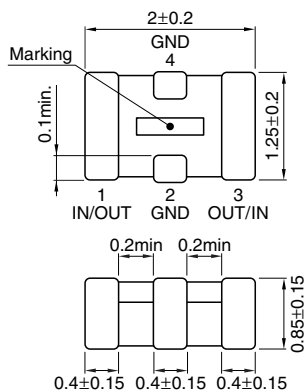
| | | | | |
|-----|------|-----|------|-----|
| MEM | 2012 | T | 25R0 | T |
| (1) | (2) | (3) | (4) | (5) |

- (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

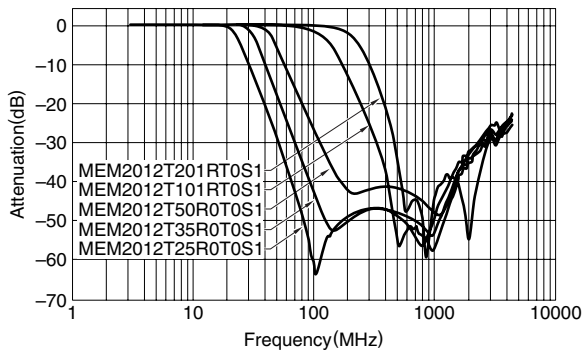
| Part No. | Cutoff frequency (MHz) | Insertion loss (dB)min. | Rated voltage Edc(V)max. | Rated current (mA)max. |
|------------------|------------------------|-------------------------|--------------------------|------------------------|
| MEM2012T25R0T0S1 | 25 | 30[70MHz to 2GHz] | 10 | 100 |
| MEM2012T35R0T0S1 | 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.

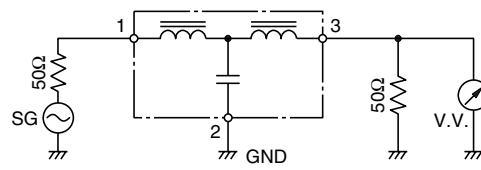
- Please contact our Sales office when your application are considered the following:
 The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

- All specifications are subject to change without notice.

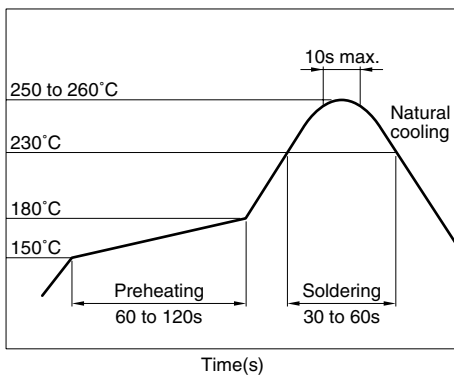
TYPICAL ELECTRICAL CHARACTERISTICS ATTENUATION vs. FREQUENCY CHARACTERISTICS



MEASURING CIRCUIT



RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View MEM2012T50R0T0S1 on WIN SOURCE](#)
- ⊖ [TDK Corporation Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

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