

# 3-terminal Filters(SMD) For Signal Line

Conformity to RoHS Directive

## MEM-S Series

### 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.
- MEM2012S 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
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### PRODUCT IDENTIFICATION

#### OLD PART NO.

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

#### NEW PART NO.

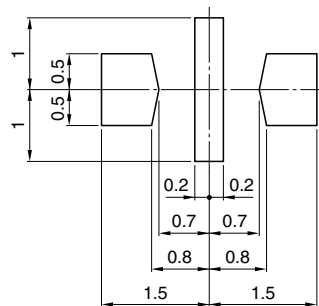
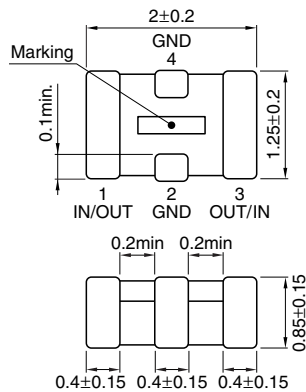
MEM	2012	S	25R0	T
(1)	(2)	(3)	(4)	(5)

- (1)Series name  
 (2)Dimensions L×W  
 (3)TDK management symbol  
 (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



- 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.)

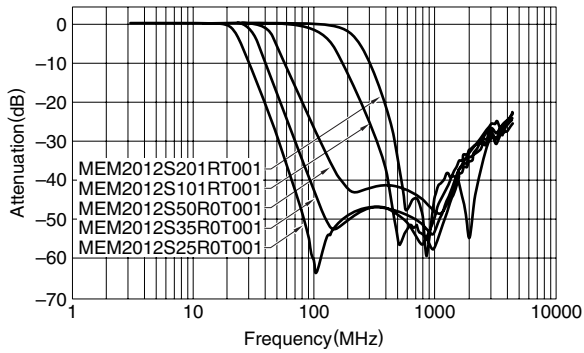
• All specifications are subject to change without notice.

## ELECTRICAL CHARACTERISTICS

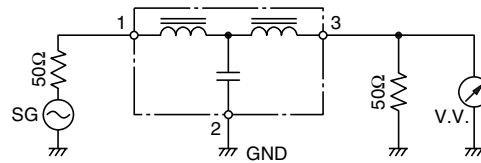
Part No.	Cutoff frequency (MHz)	Insertion loss (dB)min.	Rated voltage Edc(V)max.	Rated current (mA)max.
Old MEM2012T25R0T0S1 New MEM2012S25R0T001	25	30[70MHz to 2GHz]	10	100
Old MEM2012T35R0T0S1 New MEM2012S35R0T001	35	30[90MHz to 2GHz]	10	100
Old MEM2012T50R0T0S1 New MEM2012S50R0T001	50	30[200MHz to 2GHz]	10	100
Old MEM2012T101R0T0S1 New MEM2012S101R0T001	100	30[400MHz to 2GHz]	10	250
Old MEM2012T201R0T0S1 New MEM2012S201R0T001	200	30[530MHz to 2.5GHz]	10	250

## TYPICAL ELECTRICAL CHARACTERISTICS

### ATTENUATION vs. FREQUENCY CHARACTERISTICS



### MEASURING CIRCUIT



## RECOMMENDED SOLDERING CONDITION

### REFLOW SOLDERING

