



**THE DATASHEET OF  
MEM2012P50R0T001**



# 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
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### 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



Weight: 8mg



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



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