

# 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 π-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.

#### PRODUCT IDENTIFICATION

 $\frac{\text{MEM}}{(1)} \frac{2012}{(2)} \frac{P}{(3)} \frac{10R0}{(4)} \frac{T}{(5)}$ 

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

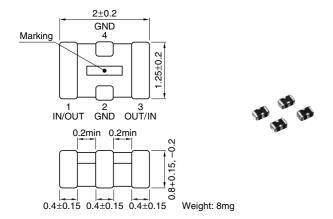
#### **PACKAGING STYLE AND QUANTITIES**

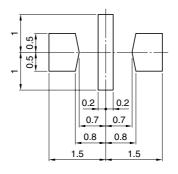
Packaging style	Quantity
Taping	4000 pieces / reel

#### **TEMPERATURE RANGES**

Operating/Storage -40 to +85°C

#### SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN





Dimensions in mm

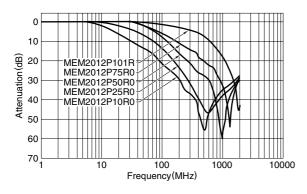
#### **ELECTRICAL CHARACTERISTICS**

Part No.	Cutoff frequency	Attenuation	Rated voltage	Rated current
	(MHz)	(dB)min.	Edc(V)max.	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

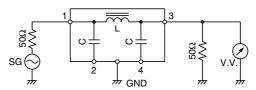
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- Please contact our Sales office when your application 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.)



# TYPICAL ELECTRICAL CHARACTERISTICS ATTENUATION vs. FREQUENCY CHARACTERISTICS



### **MEASURING CIRCUIT**



# RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING

