

# Chip Beads(SMD)

## For Wide-band

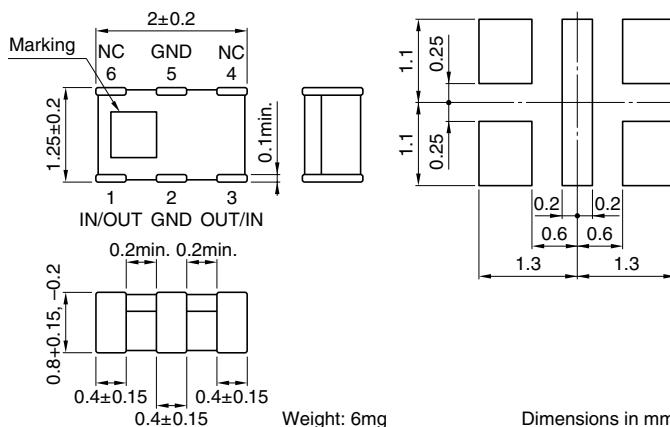
Conformity to RoHS Directive

### MEM Series MEM2012TC 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.
- MEM2012TC combines a bead inductor with a through-type capacitor.

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



#### APPLICATIONS

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

#### TEMPERATURE RANGE

Operating/Storage  $-40$  to  $+85^{\circ}\text{C}$

#### PRODUCT IDENTIFICATION

MEM 2012 T C100 T  
 (1) (2) (3) (4) (5)

- (1)Series name
- (2)Dimensions LxW
- (3)T-type circuit
- (4)Capacitance C100:10pF at 1MHz
- (5)Packaging style T:Taping



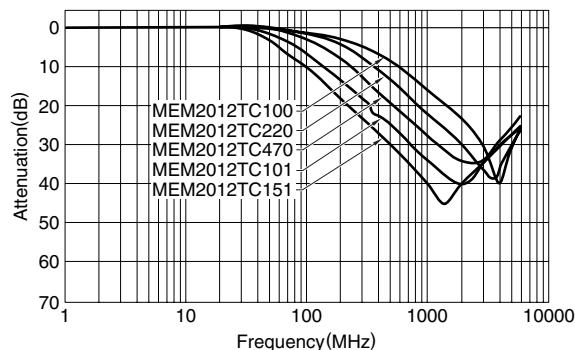
#### ELECTRICAL CHARACTERISTICS

Part No.	Capacitance* (pF)	Tolerance (%)	Rated voltage Edc(V)max.	Rated current (mA)max.	DC resistance ( $\Omega$ ) max. [Terminal No.1 to 3]
MEM2012TC100	10	$\pm 30$	12	1	0.12
MEM2012TC220	22	$\pm 30$	12	1	0.12
MEM2012TC470	47	$\pm 30$	12	1	0.12
MEM2012TC101	100	$\pm 30$	12	1	0.12
MEM2012TC151	150	$\pm 30$	12	1	0.12

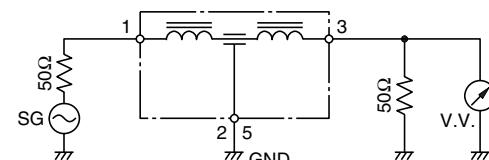
\*Measuring frequency: 1(MHz), measuring voltage: 1(V)

#### TYPICAL ELECTRICAL CHARACTERISTICS

##### ATTENUATION vs. FREQUENCY CHARACTERISTICS



##### MEASURING CIRCUIT



##### PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	4000 pieces/reel

- 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.