3-terminal Filters(SMD)
For Signal Line

Conformity to RoHS Directive

MEM Series MEM2012S 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.
- MEM2012S is a coil type EMC filter.
- This product is low profile type with the height of 0.80mm.

APPLICATIONS

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

PRODUCT IDENTIFICATION

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

(1)Series name
(2)Dimensions L×W
(3)TDK management symbol
(4)Cutoff freguency 25R0: 25MHz
(5)Packaging style T:Taping

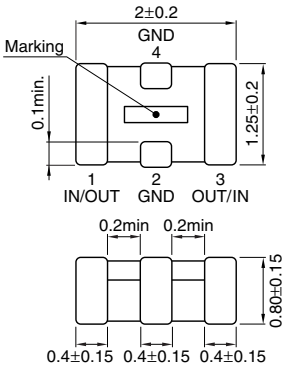
PACKAGING STYLE AND QUANTITIES

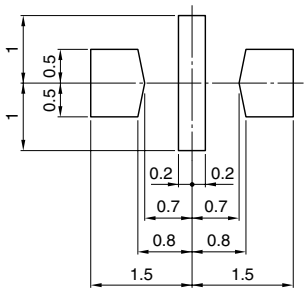
Packaging style	Quantity
Taping	4000 pieces / reel

TEMPERATURE RANGES

Operating/Storage	–40 to +85°C

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN





Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Cutoff frequency (MHz)	Insertion loss (dB)min.	Rated voltage Edc(V)max.	Rated current (mA)max.
MEM2012S25R0T	25	30[70MHz to 2GHz]	10	100
MEM2012S35R0T	35	30[90MHz to 2GHz]	10	100
MEM2012S50R0T	50	30[200MHz to 2GHz]	10	100
MEM2012S101RT	100	30[400MHz to 2GHz]	10	250
MEM2012S201RT	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.

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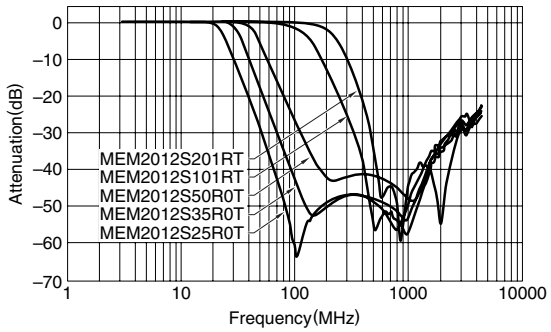
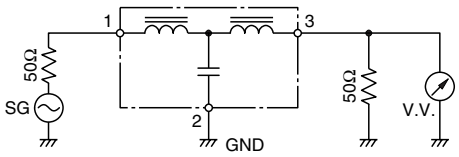
TYPICAL ELECTRICAL CHARACTERISTICS

ATTENUATION vs. FREQUENCY CHARACTERISTICS

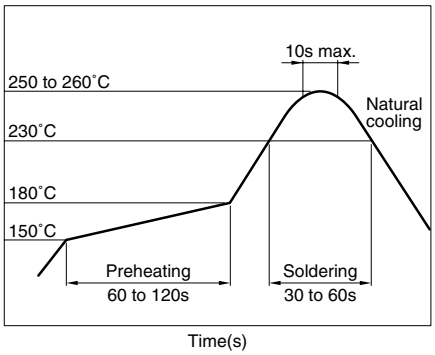


MEASURING CIRCUIT



RECOMMENDED SOLDERING CONDITION

REFLOW SOLDERING



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