## **EMC Components**

### MEM-D Series MEM2012D Type

# 3-Terminal Filters For Signal Line and DC Power Line SMD

This chip type EMC filter removes the noise component from a communication line. This noise component can be removed by inserting this products in series with the communication line. In comparison to earlier multilayer chip EMC filters, signal waveform distortion is low after the signal has passed through the filter. Therefore this filter can be used for high speed pulse signal circuits and wide band analog RGB circuits.

#### **FEATURES**

- Small size (L2×W1.25×T0.85mm).
- · Steep attenuation characteristic.
- · Low distortion of signal after passing through filter.
- SMD product that can use taped packaging for automatic mounting.
- · Capable of reflow soldering.

#### **APPLICATIONS**

Single line noise removal for PCs, CRTs, LC display panels, printers, game machines, DVD equipment, etc.

#### PRODUCT IDENTIFICATION

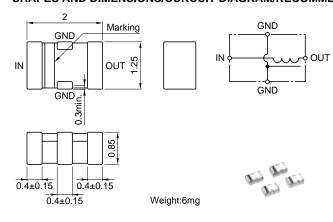
MEM	2012	D	201R	Χ
(1)	(2)	(3)	(4)	(5)

- (1) Series name
- (2) Dimensions LxW
- (3) Material code
- (4) Cutoff frequency 201R:200MHz
- (5) TDK internal code

#### **TEMPERATURE RANGE**

Operating -40 to +85°C

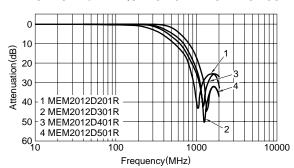
#### SHAPES AND DIMENSIONS/CURCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN





## TYPICAL ELECTRICAL CHARACTERISTICS ATTENUATION vs. FREQUENCY CHARACTERISTICS

Dimensions in mm



#### **ELECTRICAL CHARACTERISTICS**

Part No.	Rated voltage Edc (V)	Rated current Idc (mA)	Cutoff frequency (MHz)typ.	Attenuation (GHz)typ. [20dB min.]
MEM2012D201R	25	200	200	0.8 to 2
MEM2012D301R	25	200	300	0.9 to 2
MEM2012D401R	25	200	400	1 to 2
MEM2012D501R	25	200	500	1.1 to 2

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

MEM2012D 4000 pieces / reel	
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