

3-terminal filters Signal line MEM series









MEM2012S type











FEATURES

- Multilayer chip EMC filter.
- O Monolithic structure makes it highly reliable.
- Olosed magnetic circuit structure makes it possible to achieve high-density mounting without crosstalk.
- O Has sharp attenuation characteristics with excellent EMC suppression.
- O Wide range of products compatible with passing frequencies and attenuating frequencies.
- T-type circuit is used.
- Operating temperature range: -40 to +85°C

APPLICATION

- O Noise removal from signal lines of data terminals, digital cameras, computers, game machines, flat TVs, etc.
- O Application guides: Smart phones/tablets

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Cutoff frequency	Insertion loss	Rated voltage	Rated current	Part No.
(MHz)	(dB)	(V)max.	(mA)max.	
25	30[70MHz to 2GHz]	10	100	MEM2012S25R0T001
35	30[90MHz to 2GHz]	10	100	MEM2012S35R0T001
50	30[200MHz to 2GHz]	10	100	MEM2012S50R0T001
100	30[400MHz to 2GHz]	10	250	MEM2012S101RT001
200	30[530MHz to 2GHz]	10	250	MEM2012S201RT001

Measurement equipment

Measurement item	Product No.	Manufacturer
Frequency characteristics	N5230C	Keysight Technologies

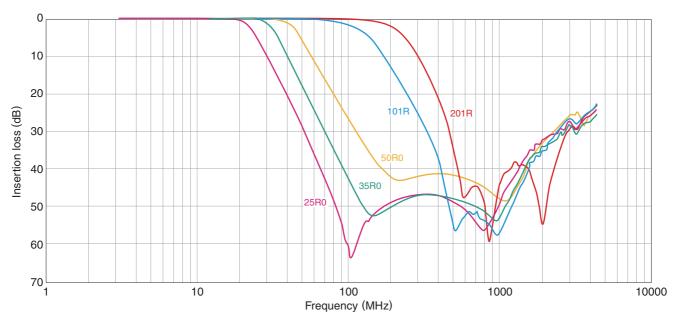
^{*} Equivalent measurement equipment may be used.





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■INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



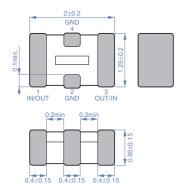
Measurement equipment

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N5230C	Keysight Technologies

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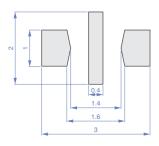
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SHAPE & DIMENSIONS



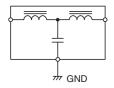
Dimensions in mm

■ RECOMMENDED LAND PATTERN

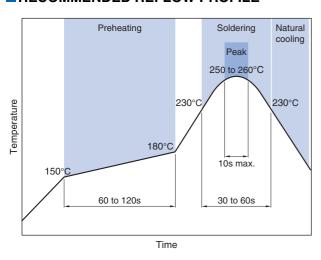


Dimensions in mm

CIRCUIT DIAGRAM

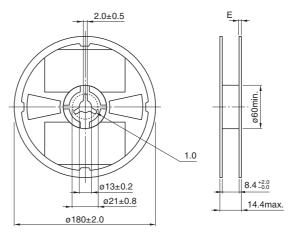


■ RECOMMENDED REFLOW PROFILE



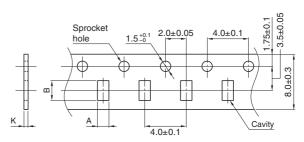
■ PACKAGING STYLE

REEL DIMENSIONS



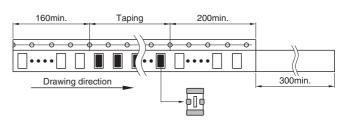
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Type	Α	В	K
MEM2012S	1.55±0.20	2.30±0.20	1.10max.



Dimensions in mm

PACKAGE QUANTITY

Package quantity	4,000 pcs/reel

■TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range	Storage temperature range*	Individual weight
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−40 to +85 °C	−40 to +85 °C	8 mg

^{*} The storage temperature range is for after the assembly.



REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.

⚠ REMINDERS	
The storage period is less than 12 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% less).	RH or
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.	
On not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).	
Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.	rature
Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.	
When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip of the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.	ot sut
Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set the design.	ermal
Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.	
Use a wrist band to discharge static electricity in your body through the grounding wire.	
On not expose the products to magnets or magnetic fields.	
On not use for a purpose outside of the contents regulated in the delivery specifications.	
The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications ement, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement ement, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or ity require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to so	equip-
person or property.	3.

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment

set forth in the each catalog, please contact us.

- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions

单击下面可查看定价,库存,交付和生命周期等信息

>>TDK Corporation