

3-terminal filters Signal line MEM series









MEM2012V type











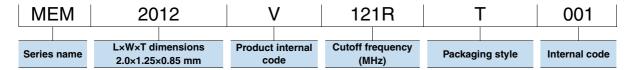
FEATURES

- 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.
- \bigcirc Double π type circuit is used.
- O Sharp attenuation characteristics.
- 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.	
120	20 [200MHz to 2GHz]	10	100	MEM2012V121RT001
150	20 [250MHz to 2GHz]	10	100	MEM2012V151RT001
180	20 [300MHz to 2GHz]	10	100	MEM2012V181RT001
210	20 [350MHz to 2GHz]	10	100	MEM2012V211RT001
240	20 [450MHz to 2GHz]	10	100	MEM2012V241RT001
300	20 [550MHz to 2GHz]	10	100	MEM2012V301RT001

Measurement equipment

Measurement item	Product No.	Manufacturer
Frequency characteristics	N5230C	Keysight Technologies

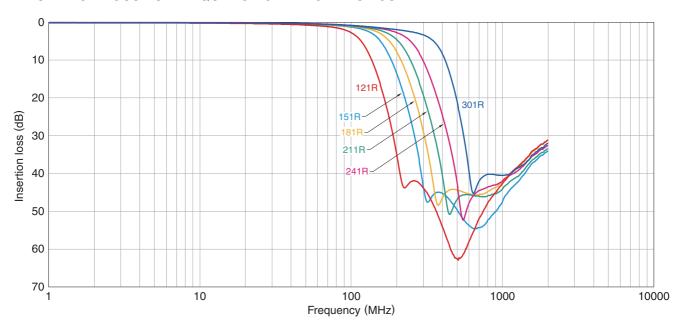
^{*} Equivalent measurement equipment may be used.





MEM2012V type

■INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



Measurement equipment

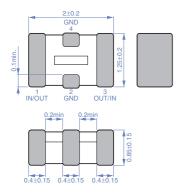
Product No.	Manufacturer
N5230C	Keysight Technologies

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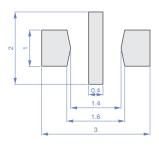
MEM2012V type

SHAPE & DIMENSIONS



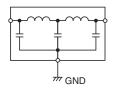
Dimensions in mm

■ RECOMMENDED LAND PATTERN

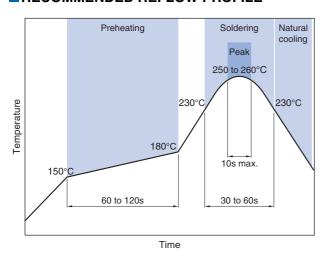


Dimensions in mm

CIRCUIT DIAGRAM

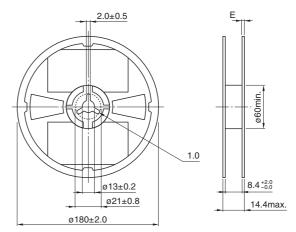


■ RECOMMENDED REFLOW PROFILE



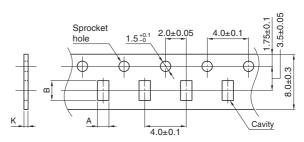
■PACKAGING STYLE

REEL DIMENSIONS



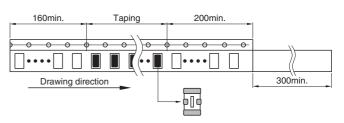
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Туре	Α	В	K
MEM2012V	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	Storage	Individual
temperature range	temperature range*	weight
-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 ess). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.	to 75% RH or
o 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 difference between the solder temperature and chiploes not exceed 150°C.	o temperature
coldering corrections after mounting should be within the range of the conditions determined in the specifications. foverheated, 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 overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.	ne chip due to
self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the lesign.	e set thermal
Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.	
Ise a wrist band to discharge static electricity in your body through the grounding wire.	
o not expose the products to magnets or magnetic fields.	
o 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, telecommunication nent, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement, 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 by require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damages are not property.	rement equip- e and/or qual-

- (1) Aerospace/aviation equipment
- $\hbox{(2) Transportation equipment (cars, electric trains, ships, etc.)}\\$
- (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