EMC Components

3-terminal filters Signal line MEM series



公TDK





FEATURES

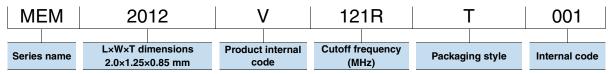
- O Multilayer chip EMC filter.
- O Monolithic structure makes it highly reliable.
- O Closed magnetic circuit structure makes it possible to achieve high-density mounting without crosstalk.
- O Has sharp attenuation characteristics with excellent EMC suppression.
- O Wide range of products compatible with passing frequencies and attenuating frequencies.
- \bigcirc Double π type circuit is used.
- 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.

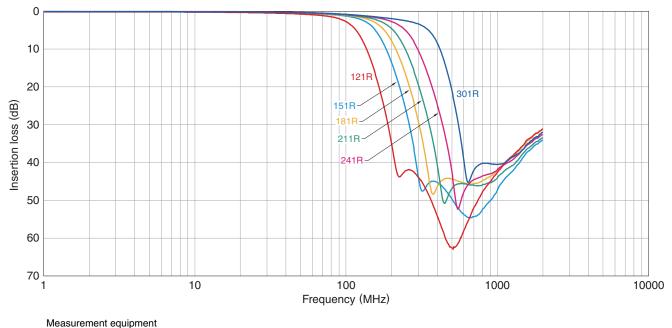


Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
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Please note that the contents may change without any prior notice due to reasons such as upgrading.
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Downloaded from Arrow.com.

MEM2012V type

■ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



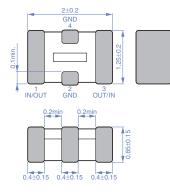
Product No.	Manufacturer
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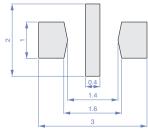
MEM2012V type

SHAPE & DIMENSIONS



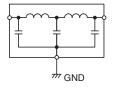
Dimensions in mm

RECOMMENDED LAND PATTERN

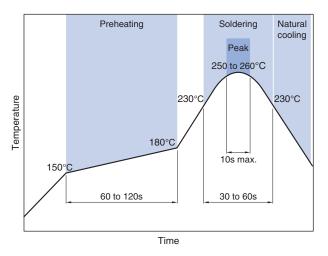


Dimensions in mm

CIRCUIT DIAGRAM

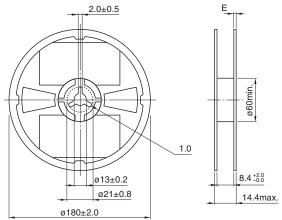


RECOMMENDED REFLOW PROFILE



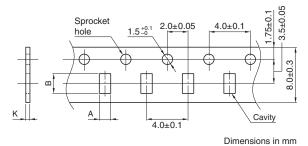
PACKAGING STYLE

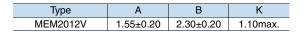


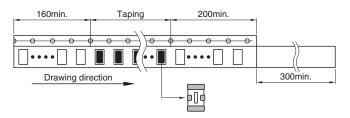


Dimensions in mm

TAPE DIMENSIONS







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.

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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.

 The storage period is less than 12 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH c less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. 				
\supset Do 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 does not exceed 150°C. 	e difference between the solder temperature and chip temperature			
 Soldering corrections after mounting should be within the range of t If overheated, a short circuit, performance deterioration, or lifespan 	-			
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 due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.				
 Self heating (temperature increase) occurs when the power is tur design. 	ned ON, so the tolerance should be sufficient for the set thermal			
 Carefully lay out the coil for the circuit board design of the non-mag A malfunction may occur due to magnetic interference. 	netic shield type.			
\bigcirc Use a wrist band to discharge static electricity in your body through	the grounding wire.			
\bigcirc Do not expose the products to magnets or magnetic fields.				
\bigcirc Do not use for a purpose outside of the contents regulated in the de	elivery specifications.			
 The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, 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 quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us. 				
 (1) Aerospace/aviation equipment (2) Transportation equipment (cars, electric trains, ships, etc.) (3) Medical equipment (4) Power-generation control equipment (5) Atomic energy-related equipment (6) Seabed equipment (7) Transportation control equipment When designing your equipment even for general-purpose application tection circuit/device or providing backup circuits in your 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 s, you are kindly requested to take into consideration securing pro- 			

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (4/4)