EMC Components

3-terminal filters Signal line MEM series



公TDK

MEM1608P type



FEATURES

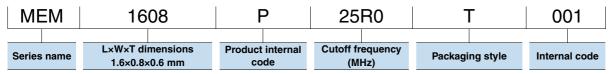
- O Multilayer chip EMC filter.
- O Monolithic structure makes it highly reliable.
- O Closed magnetic circuit structure makes it possible to achieve high-density mounting without crosstalk.
- O Has sharp attenuation characteristics with excellent EMC suppression.
- O Wide range of products compatible with passing frequencies and attenuating frequencies.
- $\bigcirc \pi$ -type circuit is used.
- \bigcirc Compact with a low profile design.
- 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	20[70MHz to 2GHz]	10	100	MEM1608P25R0T001
35	20[90MHz to 2GHz]	10	100	MEM1608P35R0T001
50	20[200MHz to 2GHz]	10	100	MEM1608P50R0T001
75	20[300MHz to 2GHz]	10	100	MEM1608P75R0T001
100	20[400MHz to 2GHz]	10	100	MEM1608P101RT001

Measurement equipment

Measurement item	Product No.	Manufacturer
Frequency characteristics	N5230C	Keysight Technologies

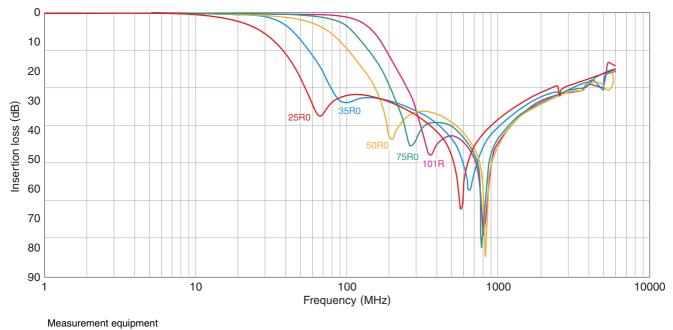
* Equivalent measurement equipment may be used.



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MEM1608P type

■ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



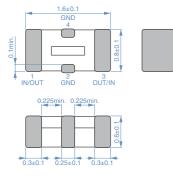
Product No.	Manufacturer		
N5230C	Keysight Technologies		

* 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.
(2/4)
Please note that the contents may change without any prior notice due to reasons such as upgrading.
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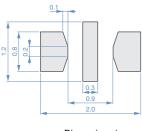
MEM1608P type

SHAPE & DIMENSIONS



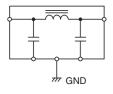
Dimensions in mm

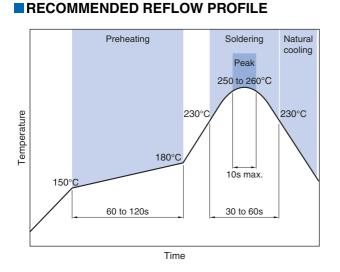
RECOMMENDED LAND PATTERN



Dimensions in mm

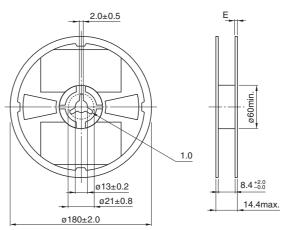
CIRCUIT DIAGRAM





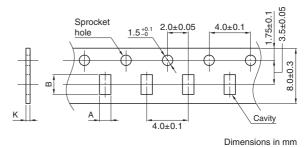
PACKAGING STYLE

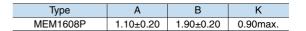
REEL DIMENSIONS

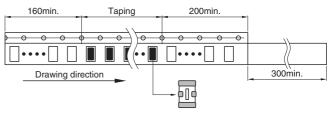


Dimensions in mm

TAPE DIMENSIONS







Dimensions in mm

PACKAGE QUANTITY

Package quantity 4,000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range	Storage temperature range*	Individual weight
–40 to +85 °C	–40 to +85 °C	3.5 mg
-40 10 +65 °C	-40 l0 +85 C	3.5 mg

* The storage temperature range is for after the assembly.

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. (3/4) Please note that the contents may change without any prior notice due to reasons such as upgrading.

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.				
Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).				
	s gas corrosion (sait, acio, aikali, etc.).			
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature does not exceed 150°C. 	re difference between the solder temperature and chip temperature			
 Soldering corrections after mounting should be within the range of If overheated, a short circuit, performance deterioration, or lifespar 	-			
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 tu design. 	rned ON, so the tolerance should be sufficient for the set thermal			
 Carefully lay out the coil for the circuit board design of the non-may A malfunction may occur due to magnetic interference. 	gnetic shield type.			
\bigcirc Use a wrist band to discharge static electricity in your body through	h 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 c	lelivery specifications.			
ment, industrial robots) under a normal operation and use conditio The products are not designed or warranted to meet the requirement ity require a more stringent level of safety or reliability, or whose far person or property.	ment, personal equipment, office equipment, measurement equip-			
 (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 			