EMC Components

3-terminal filters High-speed signal line MEM-D series



⊗TDK





FEATURES

- O Multilayer chip EMC filter with an L-type circuit.
- 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 Covers a wide frequency.
- MEM1608D is a coil type.
- \bigcirc Low profile type with a height of 0.6mm.
- Operating temperature range: -40 to +85°C

APPLICATION

○ PCs and peripheral devices, VTRs, TVs, printers, game machines, etc.

O Application guides: <u>Smart phones/tablets</u>

PART NUMBER CONSTRUCTION

MEM		1608		D		201R		Т		001	
Series name		L×W×T dimensions 1.6×0.8×0.6 mm		Product internal code		Cutoff frequency (MHz)		Packaging style		Internal code	

CHARACTERISTICS SPECIFICATION TABLE

Cutoff frequency	Rated voltage	Rated current	Part No.
(MHz)	(V)max.	(mA)max.	
200	6.3	200	MEM1608D201RT001
300	6.3	200	MEM1608D301RT001
400	6.3	200	MEM1608D401RT001
500	6.3	200	MEM1608D501RT001

Measurement equipment

Measurement item	Product No.	Manufacturer
Frequency characteristics	N5230C	Keysight Technologies

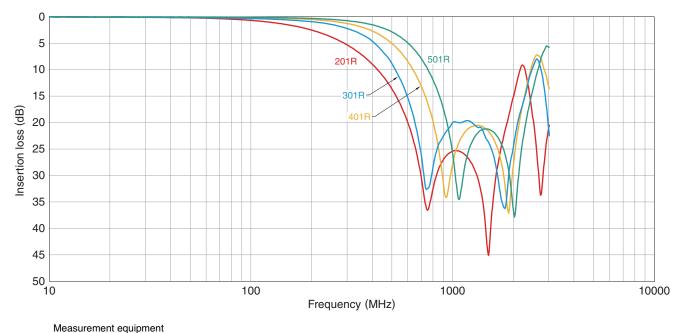
* Equivalent measurement equipment may be used.



Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
 (1/4)
 Please note that the contents may change without any prior notice due to reasons such as upgrading.
 20190207

MEM1608D type

■ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



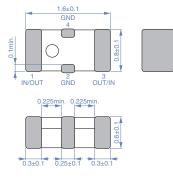
Product No. Manufacturer N5230C Keysight Technologies

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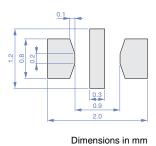
MEM1608D type

SHAPE & DIMENSIONS

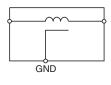


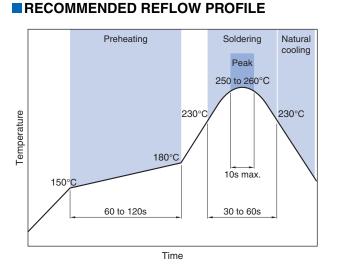
Dimensions in mm

RECOMMENDED LAND PATTERN



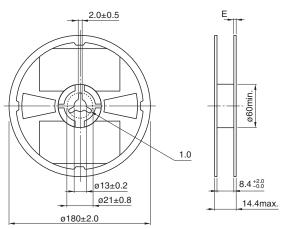
CIRCUIT DIAGRAM





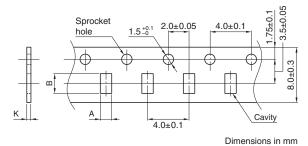
PACKAGING STYLE

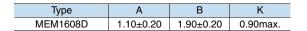
REEL DIMENSIONS

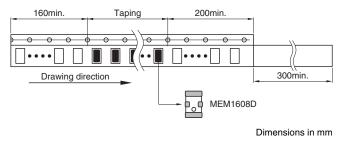


Dimensions in mm

TAPE DIMENSIONS







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	3.5 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 or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. 					
\bigcirc 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. 	difference between the solder temperature and chip temperature				
 Soldering corrections after mounting should be within the range of the If overheated, a short circuit, performance deterioration, or lifespane 	-				
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 turned ON, so the tolerance should be sufficient for the set thermal design.					
 Carefully lay out the coil for the circuit board design of the non-magr 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	livery specifications.				
 The products listed on this catalog are intended for use in general ment, home appliances, amusement equipment, computer equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirementity require a more stringent level of safety or reliability, or whose failing person or property. If you intend to use the products in the applications listed below or it set forth in the each catalog, please contact us. 	tent, personal equipment, office equipment, measurement equip- ts of the applications listed below, whose performance and/or qual- ure, malfunction or trouble could cause serious damage to society,				
 (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 applications 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)20190207