

September 2015

3-terminal Filters

For signal line

MEM Series

MEM1608P туре

MEM1608P

1608[0603 inch]*

* Dimensions Code JIS[EIA]

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 these 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% RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. O Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.). O 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. O 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. O 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-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. O Do not expose the products to magnets or magnetic fields. O Do not use for a purpose outside of the contents regulated in the delivery specifications. O 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 (8) Public information-processing equipment (2) Transportation equipment (cars, electric trains, ships, etc.) (9) Military equipment (3) Medical equipment (10) Electric heating apparatus, burning equipment (4) Power-generation control equipment (11) Disaster prevention/crime prevention equipment (5) Atomic energy-related equipment (12) Safety equipment (6) Seabed equipment (13) Other applications that are not considered general-purpose applications (7) Transportation control equipment 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.

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EMC Components

(3/7)

3-terminal Filters

For signal line

Product compatible with RoHS directive Halogen-free Compatible with lead-free solders

Overview of 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.
- Compact with a low profile design.

APPLICATION

Noise removal from signal lines of data terminals, digital cameras, computers, game machines, flat TVs, etc.

PART NUMBER CONSTRUCTION

MEM	1608		Р		25R0		Т		001	
Series name	L×W×T Dimensions (mm)		Product internal code		Cutoff frequency (MHz)		Pa	ackaging style	Interna	al code
	1608	1.6×0.8×0.6	I	Ρ	25R0	25	Т	Taping		
					35R0	35				

OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

	Temperat	ure range	Package quantity	Individual weight
Туре	Operating temperature (°C)	Storage temperature* (°C)	(pieces/reel)	(mg)
			(picoco/icci)	(iiig)
MEM1608P	-40 to +85	-40 to +85	4,000	3.5

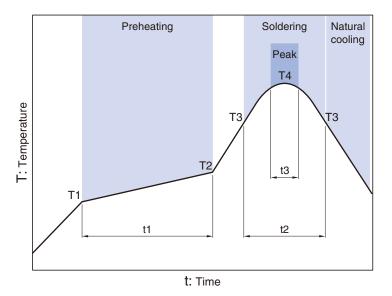
* The Storage temperature range is for after the circuit board is mounted.

RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://product.tdk.com/en/environment/rohs/
Halogen-free: Indicates that CI content is less than 900ppm, Br content is less than 900ppm, and that the total CI and Br content is less than 1500ppm.

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.

MEM1608P Type

RECOMMENDED REFLOW PROFILE



Preheating		Soldering	l	Peak		
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	Т3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	30 to 60s	250 to 260°C	10s max.

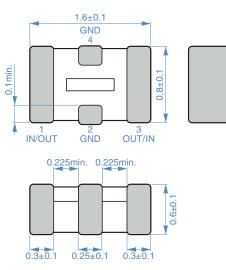
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MEM1608P Type

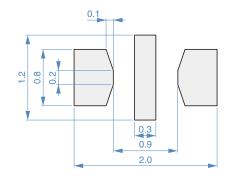
SHAPE & DIMENSIONS



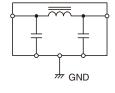


Dimensions in mm

RECOMMENDED LAND PATTERN



CIRCUIT DIAGRAM



Dimensions in mm

MEM1608P Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

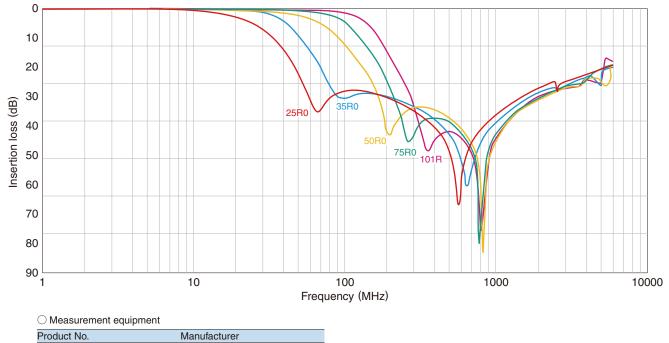
Cutoff frequency	Insertion loss	Rated voltage	Rated current	Part No.
(MHz)	(dB)	(V)max.	(mA)max.	
25	20[70MHz to 2GHz]	10	100	MEM1608P25R0T001
35	20[90MHz to 2GHz]	10	100	MEM1608P35R0T001
50	20[200MHz to 2GHz]	10	100	MEM1608P50R0T001
75	20[300MHz to 2GHz]	10	100	MEM1608P75R0T001
100	20[400MHz to 2GHz]	10	100	MEM1608P101RT001

O Measurement equipment

Measurement item	Product No.	Manufacturer	
Frequency characteristics	N5230C	Agilent Technologies	

* Equivalent measurement equipment may be used.

□ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



N5230C Agilent Technologies * Equivalent measurement equipment may be used.

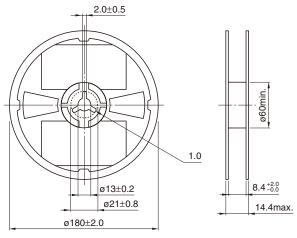
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MEM1608P Type

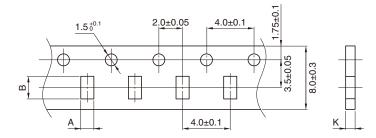
PACKAGING STYLE

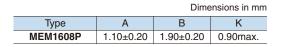
REEL DIMENSIONS

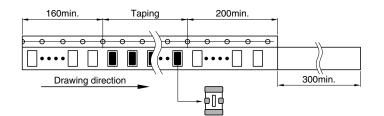


Dimensions in mm

TAPE DIMENSIONS







Dimensions in mm

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