## EMC Components

3-terminal filters, SMD array Signal line MEA-L series



# MEA1608L type

### FEATURES

- O Single chip for 4-line LC filters, and compatible with high-density mounting.
- Compact with a low profile design.
- O Effective as a desensitization countermeasure in information transmission terminals such as smart phones.
- Can be used for signal lines of mobile device displays.
- Operating temperature range: -40 to +85°C

#### APPLICATION

O Noise removal from signal lines of smart phones, digital cameras, PCs, game machines, flat TVs, etc.

O Application guides: Smart phones/tablets

#### PART NUMBER CONSTRUCTION

MEA	1608	L	50R0	Т	A0G
Series name	L×W×T dimensions 1.6×0.8×0.5 mm	Product internal code	Cutoff frequency typ. (MHz)	Packaging style	Internal code

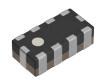
#### CHARACTERISTICS SPECIFICATION TABLE

Cutoff frequency	Insertion loss 20dB frequency range	Rated voltage	Rated current	Part No.
(MHz)typ.	(MHz)	(V)max.	(mA)max.	
50	500 to 2000	6.3	100	MEA1608L50R0TA0G
75	600 to 2000	6.3	100	MEA1608L75R0TA0G
100	800 to 2000	6.3	100	MEA1608L101RTA0G

#### Measurement equipment

Measurement item	Product No.	Manufacturer		
Frequency characteristics	N5230C	Keysight Technologies		
the Family along the appropriate and the second				

\* Equivalent measurement equipment may be used.

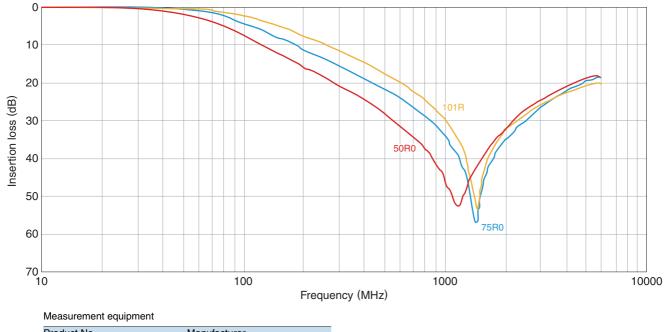


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**⊗TDK** 

# MEA1608L type

### ■ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



 Product No.
 Manufacturer

 N5230C
 Keysight Technologies

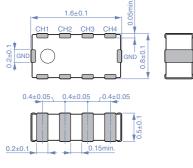
\* Equivalent measurement equipment may be used.

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

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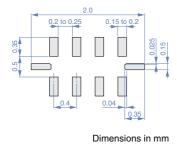
# MEA1608L type

### SHAPE & DIMENSIONS

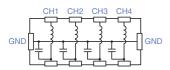


Dimensions in mm

#### RECOMMENDED LAND PATTERN



#### **CIRCUIT DIAGRAM**



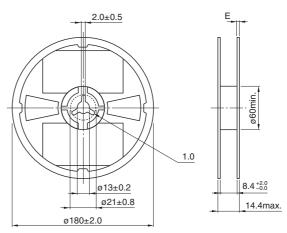
### Preheating Soldering Natural cooling Peak 250 to 260°C 230°C Temperature 230°C 180°C 10s max. 150°C 60 to 120s 30 to 60s

RECOMMENDED REFLOW PROFILE

Time

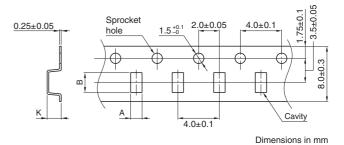
#### PACKAGING STYLE

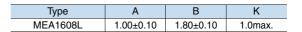
#### **REEL DIMENSIONS**

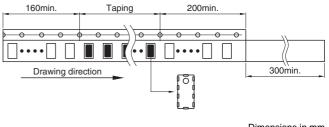


Dimensions in mm

#### **TAPE DIMENSIONS**







Dimensions in mm

#### **PACKAGE QUANTITY**

Package quantity 4,000 pcs/reel

#### TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating	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.

<u>∕!</u> ∖ REMI	INDERS
<ul> <li>The storage period is less than 12 months. Be sure to follow the sto less).</li> <li>If the storage period elapses, the soldering of the terminal electrode</li> </ul>	
	-
Do not use or store in locations where there are conditions such as	gas corrosion (sait, acio, aikaii, 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 the overall distortion of the printed circuit board and partial distortio	
Self heating (temperature increase) occurs when the power is tur design.	ned ON, so the tolerance should be sufficient for the set therma
<ul> <li>Carefully lay out the coil for the circuit board design of the non-mag</li> <li>A malfunction may occur due to magnetic interference.</li> </ul>	netic shield type.
$\bigcirc$ Use a wrist band to discharge static electricity in your body through	the grounding wire.
Do not expose the products to magnets or magnetic fields.	
$\supset$ Do not use for a purpose outside of the contents regulated in the de	elivery specifications.
<ul> <li>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 requiremer ity require a more stringent level of safety or reliability, or whose fai person or property.</li> <li>If you intend to use the products in the applications listed below or set forth in the each catalog, please contact us.</li> </ul>	nent, personal equipment, office equipment, measurement equip n. hts of the applications listed below, whose performance and/or qual lure, malfunction or trouble could cause serious damage to society
<ol> <li>Aerospace/aviation equipment</li> <li>Transportation equipment (cars, electric trains, ships, etc.)</li> <li>Medical equipment</li> <li>Power-generation control equipment</li> <li>Atomic energy-related equipment</li> <li>Seabed equipment</li> <li>Transportation control equipment</li> </ol>	<ul> <li>(8) Public information-processing equipment</li> <li>(9) Military equipment</li> <li>(10) Electric heating apparatus, burning equipment</li> <li>(11) Disaster prevention/crime prevention equipment</li> <li>(12) Safety equipment</li> <li>(13) Other applications that are not considered general-purpose applications</li> </ul>
When designing your equipment even for general-purpose application ection circuit/device or providing backup circuits in your equipment.	is, you are kindly requested to take into consideration securing pro