

3-terminal filters, SMD array Signal line (cellular band compatible) MEA-LC series





















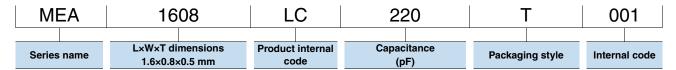
## **FEATURES**

- O Single chip for 4-line filters, and compatible with high-density mounting.
- Ocompact with a low profile design.
- O Effective as a desensitization countermeasure in information transmission terminals such as smart phones.
- On 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



#### **■ CHARACTERISTICS SPECIFICATION TABLE**

Capacitance	Cutoff frequency	Insertion loss 20dB	Rated voltage	Rated current	Part No.
		frequency range			
(pF)	(MHz)typ.	(MHz)	(V)max.	(mA)max.	
22	210	800 to 3000	6.3	100	MEA1608LC220T001
15	240	800 to 3000	6.3	100	MEA1608LC150T001
10	270	800 to 3000	6.3	100	MEA1608LC100T001
8	280	800 to 4000	6.3	100	MEA1608LC080T001
6	290	800 to 1000	6.3	100	MEA1608LC060T001
4	310	800 to 1000	6.3	100	MFA1608LC040T001

#### Measurement equipment

Measurement item	Product No.	Manufacturer
Capacitance	4294A	Keysight Technologies
Frequency characteristics	N5230C	Kevsiaht Technologies

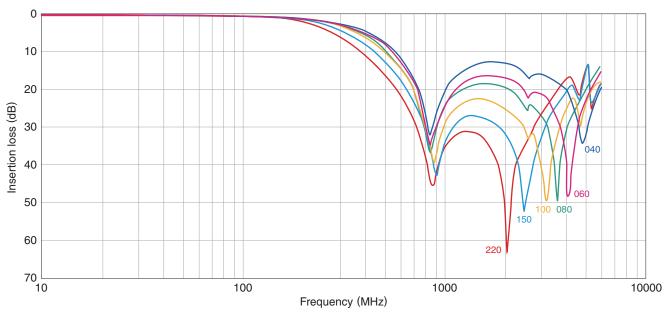
<sup>\*</sup> Equivalent measurement equipment may be used.





# MEA1608LC type

## ■INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



#### Measurement equipment

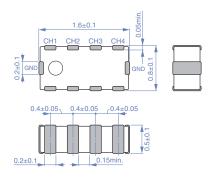
Product No.	Manufacturer
N5230C	Keysight Technologies

<sup>\*</sup> Equivalent measurement equipment may be used.



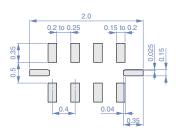
# MEA1608LC type

#### **SHAPE & DIMENSIONS**



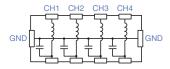
Dimensions in mm

### ■ RECOMMENDED LAND PATTERN

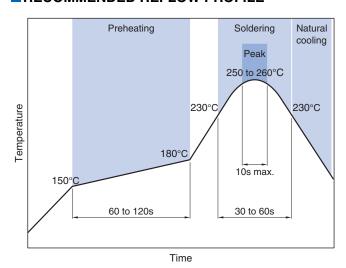


Dimensions in mm

## **CIRCUIT DIAGRAM**

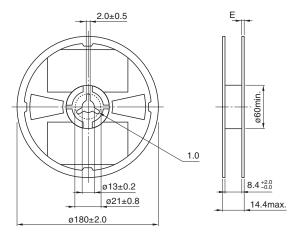


## RECOMMENDED REFLOW PROFILE



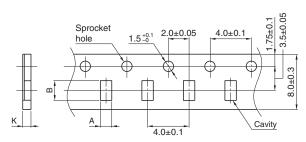
#### **■ PACKAGING STYLE**

#### □REEL DIMENSIONS



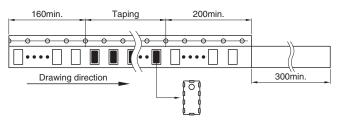
Dimensions in mm

#### **TAPE DIMENSIONS**



Dimensions	in	mm
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Туре	Α	В	K
MEA1608LC	1.10±0.20	1.90±0.20	0.72max.



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

<sup>\*</sup> The storage temperature range is for after the assembly.

# 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.

⚠ 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% less).  If the storage period elapses, the soldering of the terminal electrodes may deteriorate.	6 RH or
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 difference between the solder temperature and chip temp does not exceed 150°C.	erature
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.	
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 the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.	due to
Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set t design.	thermal
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.	
Do not expose the products to magnets or magnetic fields.	
Do not use for a purpose outside of the contents regulated in the delivery specifications.	
The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications ment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement ment, 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/o ity require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to safety.	equip-

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment

person or property.

(4) Power-generation control equipment

set forth in the each catalog, please contact us.

- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control 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

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.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions