EMC Components

3-terminal filters, SMD array

Differential signal line (UHF band terrestrial digital broadcast / DVB-H band compatible) MEA-LE series

MEA1608LE type



FEATURES

- LC filter with dual circuit formation differential lines (D+ and D-) for high-density mounting.
- Low profile type with a thickness of 0.5mm.
- O Can reduce radiation noise generated from differential signal lines (LVDS, MIPI, MDDI).
- O Effective as a desensitization countermeasure for digital terrestrial broadcasts (UHF band).
- Operating temperature range: -40 to +85°C

APPLICATION

O Noise removal for differential transmission lines (MIPI, etc.) of various mobile devices.

O Application guides: Smart phones/tablets

PART NUMBER CONSTRUCTION

MEA	1608	LE	360	Т	A0G
Series name	L×W×T dimensions 1.6×0.8×0.5 mm	Product internal code	Capacitance (pF)	Packaging style	Internal code

CHARACTERISTICS SPECIFICATION TABLE

Capacitance	Cutoff frequency	Insertion loss 20dB frequency range	Rated voltage	Rated current	Part No.
(pF)	(MHz)typ.	(MHz)	(V)max.	(mA)max.	
36	180(Sdd)		6.3	50	MEA1608LE360TA0G
22	270(Sdd)		6.3	50	MEA1608LE220TA0G
15	390(Sdd)		6.3	50	MEA1608LE150TA0G
10	550(Sdd)		6.3	50	MEA1608LE100TA0G

Measurement equipment

Measurement item	Product No.	Manufacturer	
Frequency characteristics	N5230C	Keysight Technologies	

* Equivalent measurement equipment may be used.

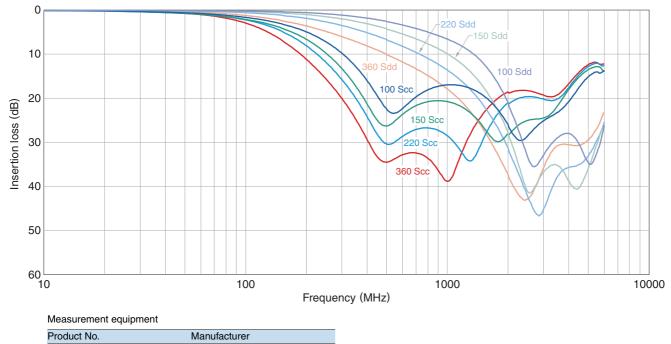


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MEA1608LE type

■ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



N5230C Keysight Technologies

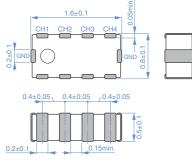
* Equivalent measurement equipment may be used.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
(2/4)
Please note that the contents may change without any prior notice due to reasons such as upgrading.
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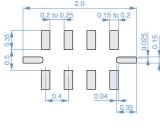
MEA1608LE type

SHAPE & DIMENSIONS



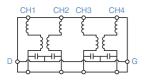
Dimensions in mm

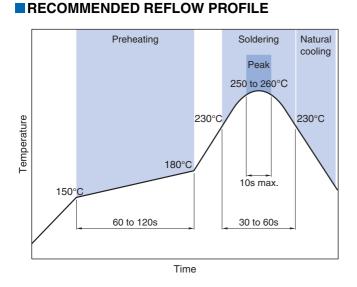
RECOMMENDED LAND PATTERN



Dimensions in mm

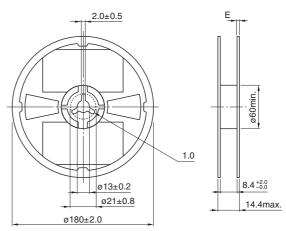
CIRCUIT DIAGRAM





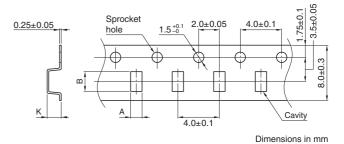
PACKAGING STYLE

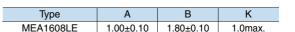
REEL DIMENSIONS

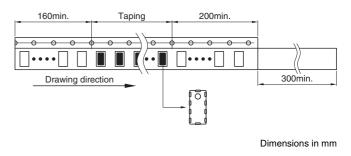


Dimensions in mm

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 stoless). If the storage period elapses, the soldering of the terminal electroopy 			
 Do not use or store in locations where there are conditions such as 			
 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 If overheated, a short circuit, performance deterioration, or lifespar 	-		
O When embedding a printed circuit board where a chip is mounted the overall distortion of the printed circuit board and partial distortion			
 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-mag A malfunction may occur due to magnetic interference. 	gnetic shield type.		
\bigcirc Use a wrist band to discharge static electricity in your body through	n 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	elivery 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 		

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