EMC Components

3-terminal filters, SMD array Signal line (UHF band terrestrial digital broadcast / DVB-H band compatible)

MEA-PE series

RoHS REACH SVHC-Free Free Free Free

公TDK

MEA1608PE type



FEATURES

- Single chip for 4-line 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	PE	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	Rated voltage	Rated current	Part No.
		frequency range			
(pF)	(MHz)typ.	(MHz)	(V)max.	(mA)max.	
36	220	470 to 3000	6.3	100	MEA1608PE360TA0G
27	240	470 to 3000	6.3	100	MEA1608PE270TA0G
22	250	470 to 3000	6.3	100	MEA1608PE220TA0G
15	270	—	6.3	100	MEA1608PE150TA0G

Measurement equipment

Measurement item	Product No.	Manufacturer	
Capacitance	4294A	Keysight Technologies	
Frequency characteristics	N5230C	Keysight Technologies	
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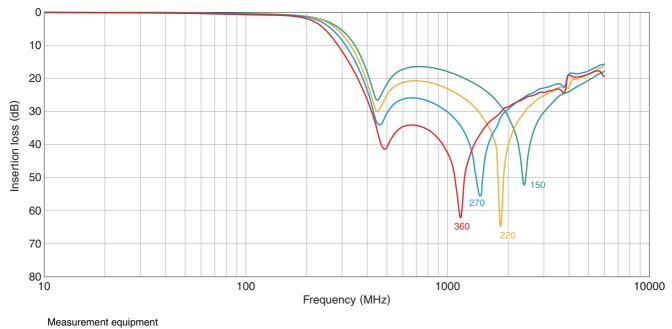
* Equivalent measurement equipment may be used.



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MEA1608PE type

■ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



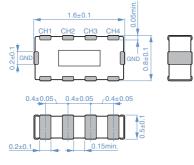
Product No.	Manufacturer
N5230C	Keysight Technologies

* 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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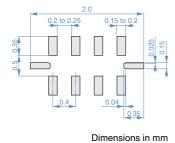
MEA1608PE type

SHAPE & DIMENSIONS

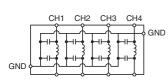


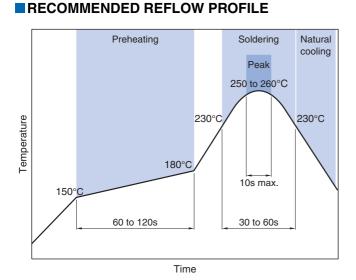
Dimensions in mm

RECOMMENDED LAND PATTERN



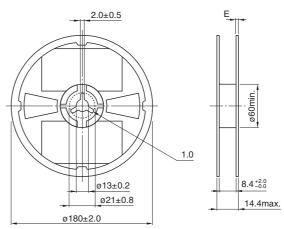
CIRCUIT DIAGRAM





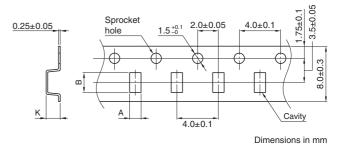
PACKAGING STYLE

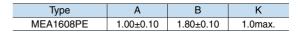
REEL DIMENSIONS

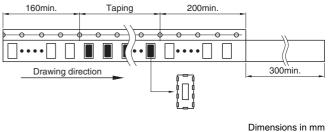


Dimensions in mm

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.

	DERS	
 The storage period is less than 12 months. Be sure to follow the storag less). If the storage period elapses, the soldering of the terminal electrodes r 		
O Do not use or store in locations where there are conditions such as gas	s corrosion (salt, acid, alkali, etc.).	
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature dir does not exceed 150°C. 	fference 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 lifespan sho 	-	
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 design. 	d ON, so the tolerance should be sufficient for the set thermal	
Carefully lay out the coil for the circuit board design of the non-magnetic A malfunction may occur due to magnetic interference.	ic shield type.	
\bigcirc Use a wrist band to discharge static electricity in your body through the	e 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 deliver	ery specifications.	
 The products listed on this catalog are intended for use in general element, home appliances, amusement equipment, computer equipment ment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of ity require a more stringent level of safety or reliability, or whose failure person or property. If you intend to use the products in the applications listed below or if you set forth in the each catalog, please contact us. 	nt, personal equipment, office equipment, measurement equip- of the applications listed below, whose performance and/or qual- e, malfunction or trouble could cause serious damage to society,	
 (2) Transportation equipment (cars, electric trains, ships, etc.) (3) Medical equipment (4) Power-generation control equipment (5) Atomic energy-related 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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