EMC Components

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



MEA2010PE 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	2010	PE	400	Т	001
Series name	L×W×T dimensions 2.0×1.0×0.7 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.	
40	210	470 to 3000	6.3	100	MEA2010PE400T001
36	220	470 to 3000	6.3	100	MEA2010PE360T001
22	250	470 to 3000	6.3	100	MEA2010PE220T001
15	270		6.3	100	MEA2010PE150T001

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.

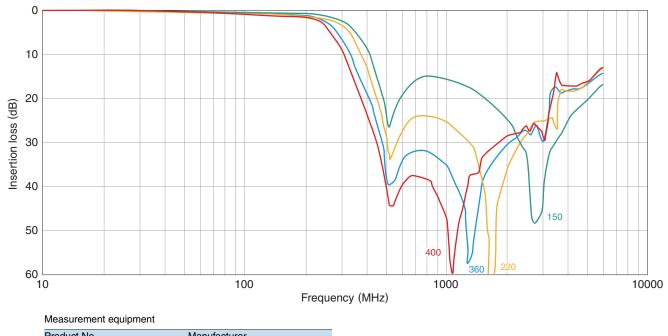


Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
(1/4)
Please note that the contents may change without any prior notice due to reasons such as upgrading.
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⇔TDK

MEA2010PE type

■ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



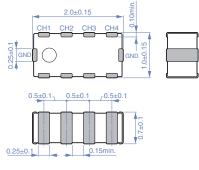
	Manulacturer
N5230C	Keysight Technologies

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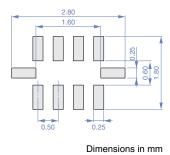
MEA2010PE type

SHAPE & DIMENSIONS



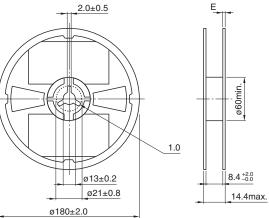
Dimensions in mm

RECOMMENDED LAND PATTERN



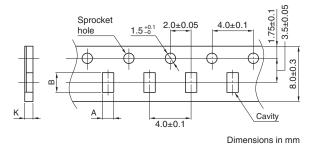
PACKAGING STYLE

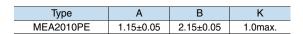


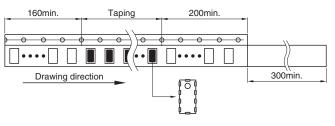


Dimensions in mm

TAPE DIMENSIONS







Dimensions in mm

PACKAGE QUANTITY

Package quantity 4,000 pcs/reel

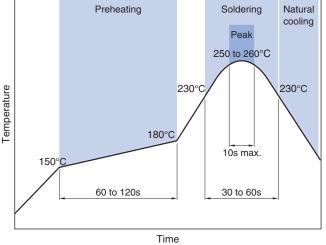
TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range	Storage temperature range*	Individual weight	
–40 to +85 °C	–40 to +85 °C	7 mg	
* The storage temperature range is for after the assembly			

The storage temperature range is for after the assembly.

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CIRCUIT DIAGRAM CH2 CH3 CH4 CH1 GND GN RECOMMENDED REFLOW PROFILE Preheating



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 sto less). If the storage period elapses, the soldering of the terminal electrode 				
O 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 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 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 tur design. 	ned 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. 	netic shield type.			
\bigcirc Use a wrist band to discharge static electricity in your body through	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 de	elivery specifications.			
 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 requirement ity require a more stringent level of safety or reliability, or whose fail person or property. If you intend to use the products in the applications listed below or set forth in the each catalog, please contact us. 	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,			
 (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 s, you are kindly requested to take into consideration securing pro- 			

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