• Please refer to our Web site about replacement information.

EMC Components



3-terminal filters, SMD array Differential signal line (cellular band compatible) MEA-LD series









MEA2010LD type











FEATURES

- OLC filter with differential lines (D+ and D-) for high-density mounting.
- Ocompact with a low profile design.
- Ocan reduce radiation noise generated from differential signal lines (LVDS, MIPI, MDDI).
- Effective as a desensitization countermeasure in information transmission terminals such as smart phones.
- 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

M	1EA 2010		LD		220			Т		00)2			
Serie	s name	L×W×T dimensions 2.0×1.0×0.5 mm			internal de	T		citance pF)	2	Packag	ing sty	/le	Interna	l code

■ CHARACTERISTICS SPECIFICATION TABLE

Capacitance Cutoff frequency		Rated voltage	Rated current	Part No.
(pF)	(MHz)typ.	(V)max.	(mA)max.	
22	240(Sdd)	6.3	100	MEA2010LD220T002
17	330(Sdd)	6.3	100	MEA2010LD170T002
12	430(Sdd)	6.3	100	MEA2010LD120T002

Measurement equipment

Measurement item	Product No.	7	Manufacturer	
Capacitance	4294A		Keysight Technologies	
Frequency characteristics	N5230C		Keysight Technologies	

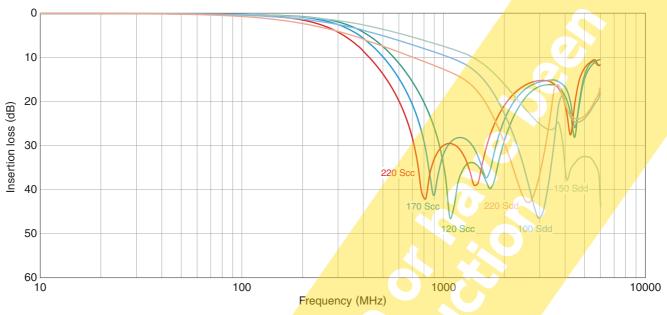
^{*} Equivalent measurement equipment may be used.





MEA2010LD type

■INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



Measurement equipment

Product No.	Manufacturer
N5230C	Keysight Technologies

^{*} Equivalent measurement equipment may be used.

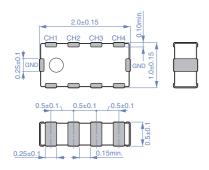
(2/4)

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



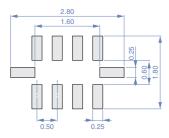
MEA2010LD type

SHAPE & DIMENSIONS



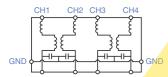
Dimensions in mm

■ RECOMMENDED LAND PATTERN

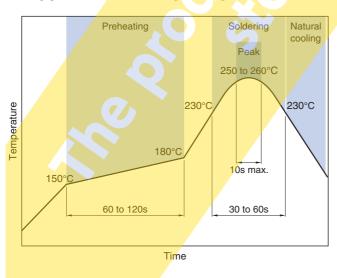


Dimensions in mm

CIRCUIT DIAGRAM

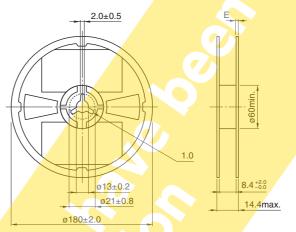


■ RECOMMENDED REFLOW PROFILE



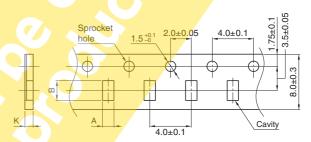
■PACKAGING STYLE

REEL DIMENSIONS



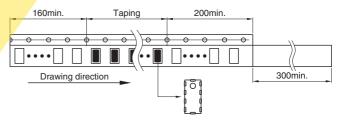
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Type		Α	В	K
MEA2010LD)	1.15±0.05	2.15±0.05	1.0max.



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	5 mg

^{*} 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% RH or less).
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
On 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 temperature does not exceed 150°C.
 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 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 ON, so the tolerance should be sufficient for the set therma design.
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.
On not expose the products to magnets or magnetic fields.
On 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 equip-

ity require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions

ment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equip-

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or qual-

- set forth in the each catalog, please contact us.
- (1) Aerospace/aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)

ment, industrial robots) under a normal operation and use condition.

- (3) Medical equipment
- (4) Power-generation control equipment
- (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 prot<mark>ection circuit/device or providing bac</mark>kup circuits in your equipment.