



3-terminal Filters, SMD Array

For signal line

(UHF band terrestrial digital broadcast / DVB-H band compatible)

MEA-PE Series

MEA1210PE Type

MEA1210PE

1210[0504 inch]*

* Dimensions Code JIS[EIA]



The products in this catalog will be or have been stopped production

Discontinue Issue Date	May 18, 2017
Last Purchase Order Date	Mar. 29, 2019
Last Shipment Date	Sep. 30, 2019

Please refer to our Web site about replacement information.

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 these 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 thermal 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. One point 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 equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, 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/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to

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

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

society, 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.

EMC Components



3-terminal Filters, SMD Array

Product compatible with RoHS directive
Halogen-free
Compatible with lead-free solders

For signal line

(UHF band terrestrial digital broadcast / DVB-H band compatible)

Overview of MEA1210PE Type

FEATURES

- OSingle chip for 2-line filters, and compatible with high-density mounting.
- Ocompact with a low profile design.
- Effective as a desensitization countermeasure in information transmission terminals such as smart phones.
- On be used for signal lines of mobile device displays.

APPLICATION

Noise removal from signal lines of smart phones, digital cameras, PCs, game machines, flat TVs, etc.

PART NUMBER CONSTRUCTION

MEA	1210		PE		400		T		001			
Series name		Dimensions mm)	Product interna	ı	Capacitance (pF)		Packaging style		•	Interna	al code	
	1210	1.2×1.0×0.5	PE	V	400 360		40 36	Т	Taping			

■ OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

	Tempera	ture range	Package quantity	Individual weight
Type Operating temperature		Storage temperature*		
	(°C)	(°C)	(pieces/reel)	(mg)
MEA1210PE	-40 to +85	-40 to +85	4,000	3

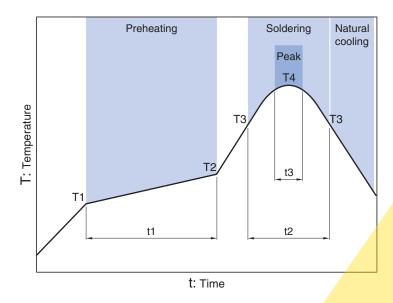
^{*} The Storage temperature range is for after the circuit board is mounted.

RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html

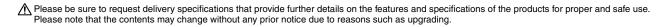
Halogen-free: Indicates that CI content is less than 900ppm, Br content is less than 900ppm, and that the total CI and Br content is less than 1500ppm.



■ RECOMMENDED REFLOW PROFILE

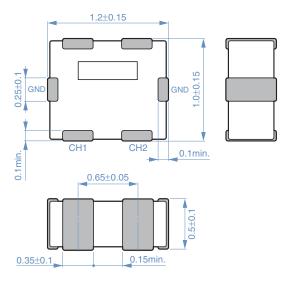


Preheati	ng		Soldering		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	30 to 60s	250 to 260°0	10s max.



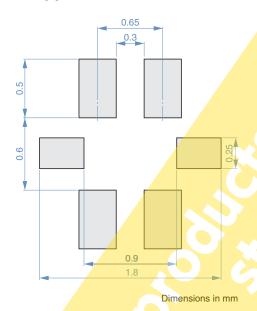


■SHAPE & DIMENSIONS

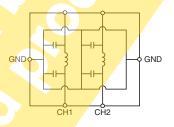


Dimensions in mm

■ RECOMMENDED LAND PATTERN



CIRCUIT DIAGRAM



A 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.



■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

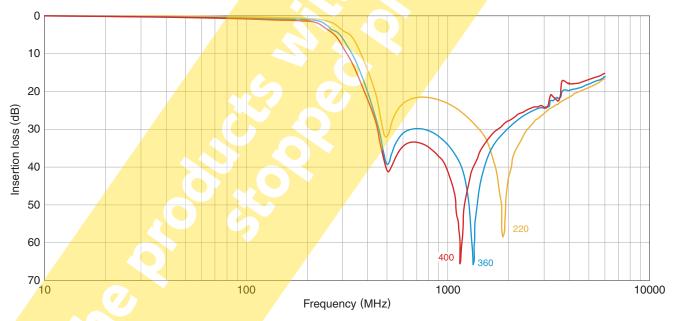
Capacitance	Cutoff frequency	Insertion loss 20dB frequency range	Rated voltage	Rated current	Part No.
(pF)	(MHz)typ.	(MHz)	(V)max.	(mA)max.	
40	210	470 to 3000	6.3	100	MEA1210PE400T001
36	220	470 to 3000	6.3	100	MEA1210PE360T001
22	250	470 to 3000	6.3	100	MEA1210PE220T001

O Measurement equipment

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

^{*} Equivalent measurement equipment may be used.

☐ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



Measurement equipment

Product No. Manufacturer

N5230C Keysight Technologies

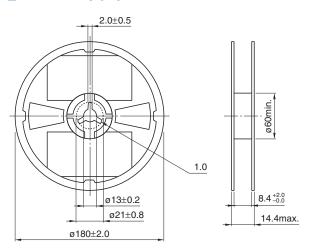
^{*} Equivalent measurement equipment may be used.

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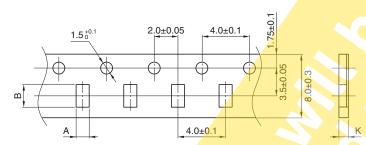
■PACKAGING STYLE

REEL DIMENSIONS

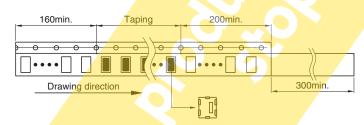


Dimensions in mm

TAPE DIMENSIONS



			Dim	ensio	ns in	mm
Type	Α	\mathcal{I}	В		K	
MEA1210PE	1.20±0.05	1.	.45±0.05	0.7	3max	Κ.



Dimensions in mm

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