

Chip Beads(SMD Array) For General Signal Line

Conformity to RoHS Directive

MZA Series MZA1210 Type

FEATURES

- A single MZA series chip provides noise attenuation for two lines, making it ideal for use with I/O lines of various highly miniaturized.
- Electronic equipment, such as portable products, which comprise high density circuitry.
- Low crosstalk between adjacent circuits.
- Internal electrodes feature low DC resistance, minimizing wasteful power consumption.
- Electroplated terminal electrodes accommodate reflow soldering.
- Monolithic structure ensures high reliability.
- The products contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

APPLICATIONS

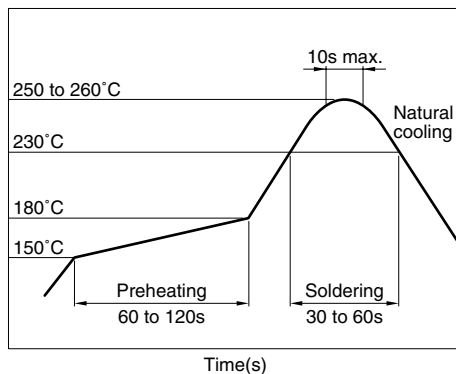
High-frequency noise countermeasure in computers, printers, VCRs, televisions, portable telephones, and other equipment.

PRODUCT IDENTIFICATION

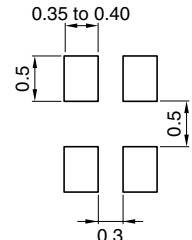
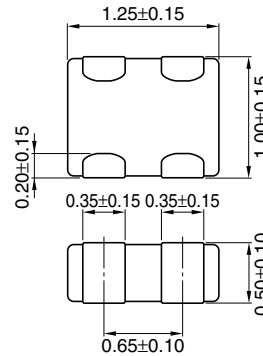
MZA	1210	D	121	C	T
(1)	(2)	(3)	(4)	(5)	(6)

- (1) Series name
 (2) Dimensions L×W
 (3) Material code
 (4) Nominal impedance
 121:120Ω at 100MHz
 (5) Characteristic type
 (6) Packaging style
 T:Taping

RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



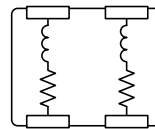
SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



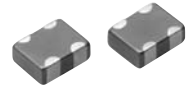
Weight: 3mg

Dimensions in mm

CIRCUIT DIAGRAM



• No polarity



TEMPERATURE RANGES

Operating/storage	-55 to +125°C
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PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	5000 pieces/reel

HANDLING AND PRECAUTIONS

- Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and product temperature does not exceed 150°C.
- After mounting components onto the printed circuit board, do not apply stress through board bending or mishandling.
- The inductance value may change due to magnetic saturation if the current exceeds the rated maximum.
- Do not expose the inductors to stray magnetic fields.
- Avoid static electricity discharge during handling.
- When hand soldering, apply the soldering iron to the printed circuit board only. Temperature of the iron tip should not exceed 350°C. Soldering time should not exceed 3 seconds.
- This product does not apply to flow soldering construction method.

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• Please contact our Sales office when your application are considered the following:
 The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

• All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

Part No.	Impedance(Ω) $\pm 25\%$ [100MHz]*	DC resistance (Ω)max.	Rated current (mA)max.	Rated voltage (V)max.
MZA1210D330C	33	0.3	50	5
MZA1210D680C	68	0.5	50	5
MZA1210D121C	120	0.8	50	5
MZA1210D241C	240	1.2	50	5

* Test equipment: E4991A or equivalent

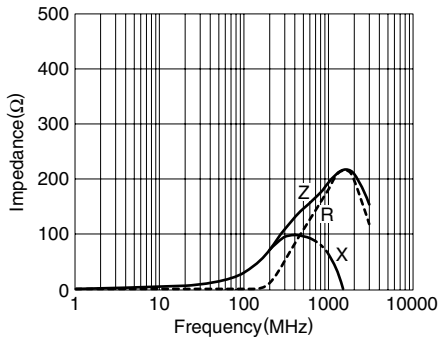
Test tool: 16192A or equivalent

Test temperature: $25 \pm 10^\circ\text{C}$

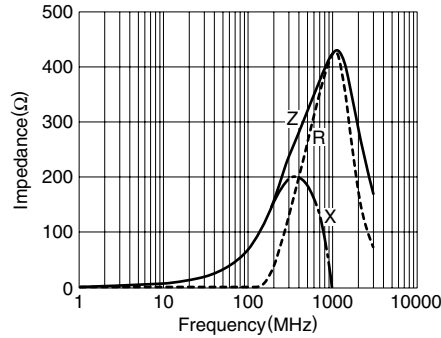
TYPICAL ELECTRICAL CHARACTERISTICS

Z, X, R vs. FREQUENCY CHARACTERISTICS

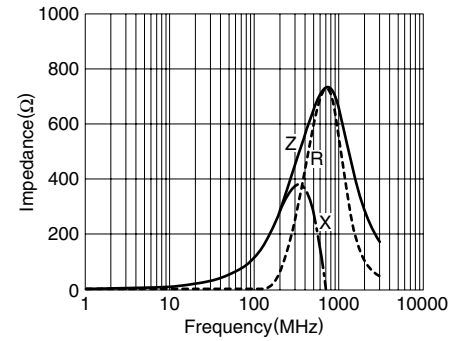
MZA1210D330C



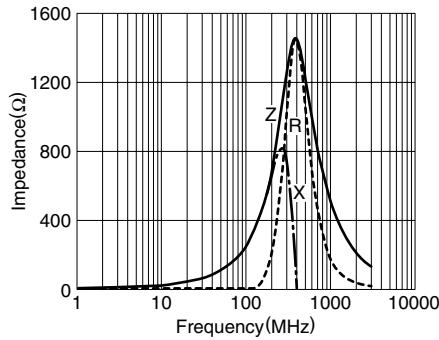
MZA1210D680C



MZA1210D121C

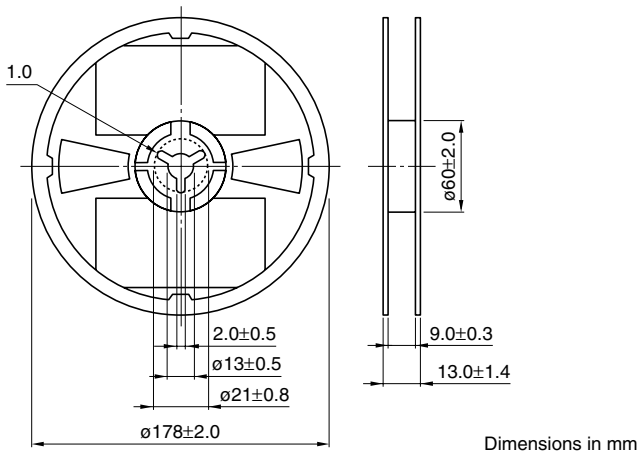


MZA1210D241C



PACKAGING STYLES

REEL DIMENSIONS



TAPE DIMENSIONS

