

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[TDK Corporation](#)  
[MZA1210D330C](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

## 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

Removal of signal line noises of cellular phones, PCs, note PCs, TVs, DVDs, DSCs, game machines, digital photo frames, PNDs, etc.

#### PRODUCT IDENTIFICATION

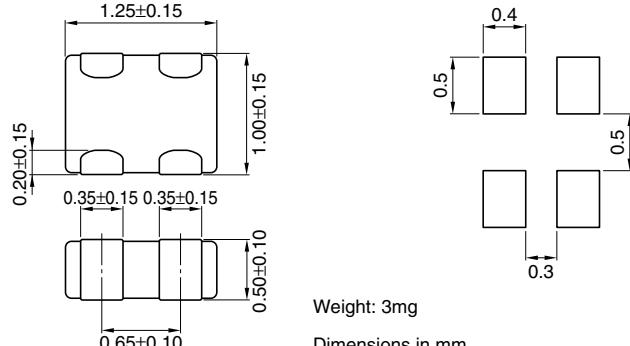
MZA	1210	D	121	C	T
(1)	(2)	(3)	(4)	(5)	(6)

- (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

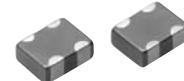
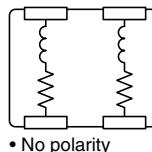
#### HANDLING AND PRECAUTIONS

- 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.
- 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.)

#### SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



#### CIRCUIT DIAGRAM



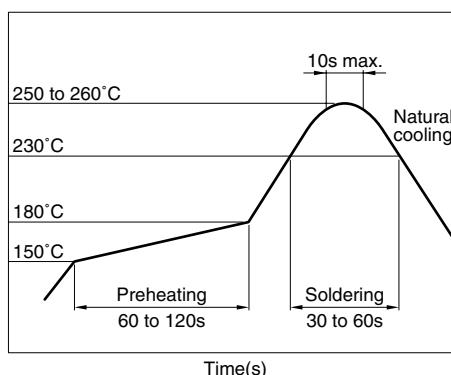
#### TEMPERATURE RANGES

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

Packaging style	Quantity
Taping	5000 pieces/reel

#### RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



### ELECTRICAL CHARACTERISTICS

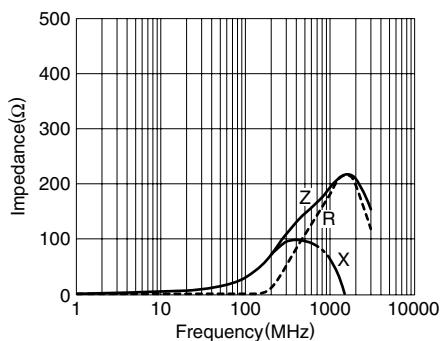
Part No.	Impedance( $\Omega$ ) $\pm 25\%[100\text{MHz}]^*$	DC resistance ( $\Omega$ )max.	Rated current (mA)max.	Rated voltage (V)max.
MZA1210D330C	33	0.3	50	5
MZA1210D680C	68	0.5	50	5
MZA1210D121C	120	0.8	50	5
MZA1210D241C	240	1.2	50	5

\* Test equipment: E4991A or equivalent  
 Test tool: 16192A or equivalent  
 Test temperature:  $25 \pm 10^\circ\text{C}$

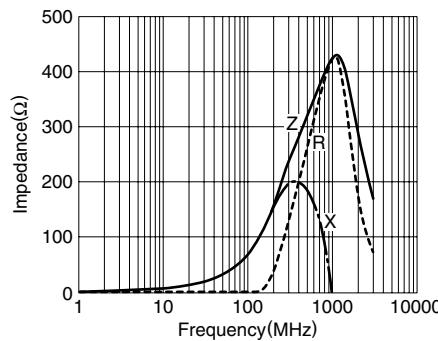
### TYPICAL ELECTRICAL CHARACTERISTICS

#### Z, X, R vs. FREQUENCY CHARACTERISTICS

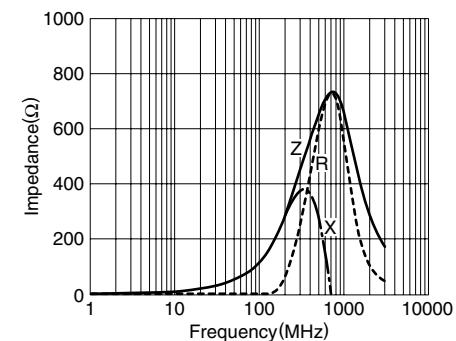
**MZA1210D330C**



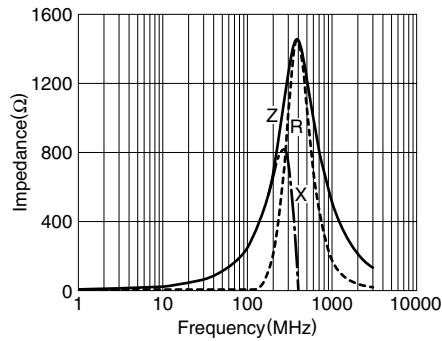
**MZA1210D680C**



**MZA1210D121C**

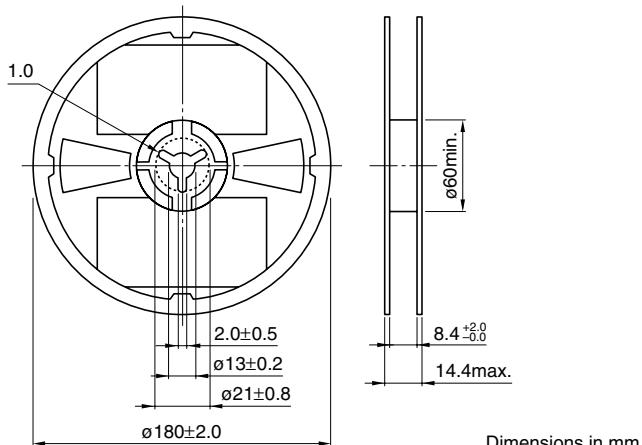


**MZA1210D241C**



### PACKAGING STYLES

#### REEL DIMENSIONS



#### TAPE DIMENSIONS

