# Excellent Integrated System Limited

Stocking Distributor

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TDK Corporation
MCZ1210AD221

For any questions, you can email us directly:
sales@integrated-circuit.com

# EMC Components

Common Type Chip Beads
SMD

MCZ Series MCZ1210 Type

Size: JIS/IEC 1210, EIA 0504

This is a common type bead product that removes the noise components in a signal line and includes beads for two lines in a single chip. The product exhibits substantial impedance characteristics in the high frequency range and is therefore capable of effectively removing differential mode noises. Additionally, an appropriate amount of magnetic coupling is created between the beads of the two lines, giving the product the capability to remove not only differential mode noise but common mode noise as well. It is encased in a 1210 casing. This is an SMD product that allows for automatic mounting by taping.

## FEATURES

- Compact size, Low Rdc (0.75Ω max.)
- Capable of removing both common and differential mode noises.
- Closed magnetic circuit structure allows high-density installation while preventing crosstalk between circuits.

## APPLICATIONS

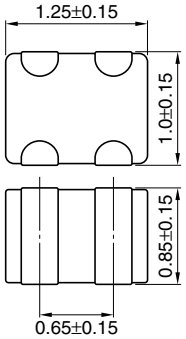
Audio signal lines used in cell phones and mobile audio devices, personal computers and peripheral equipment, PDA, digital camera, etc.

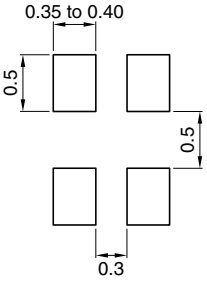
## PRODUCT IDENTIFICATION

| MCZ | 1210 | A | D | 102 | T |
|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) |

(1) Series name
(2) Dimensions L×W
(3) Ferrite material
(4) Number of line
(5) Impedance
102:1000Ω at 100MHz
(6) Packaging style
T:Taping

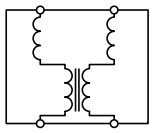
## SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN




Dimensions in mm

## CIRCUIT DIAGRAM



• No polarity

## PACKAGING STYLE AND QUANTITIES

| Packaging style | Quantity |
|---|---|
| Taping | 4000 pieces/reel |

## ELECTRICAL CHARACTERISTICS

| Part No. | Open mode impedance (Ω)[at 100MHz] | DC resistance (Ω)max. | Insulation resistance (MΩ)min. | Rated voltage Edc(V)max. | Rated current Idc(mA)max. |
|---|---|---|---|---|---|
| MCZ1210AD102 | 1000±25% | 0.75 | 1 | 5 | 50 |
| MCZ1210AD221 | 220±25% | 0.3 | 1 | 5 | 350 |
| MCZ1210AD121 | 120±25% | 0.2 | 1 | 5 | 500 |

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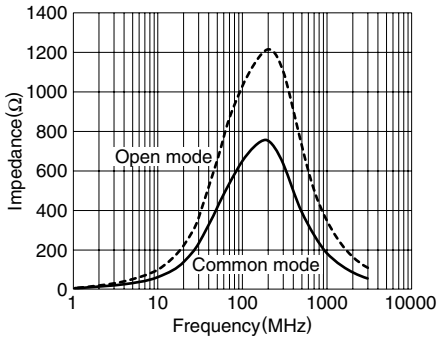
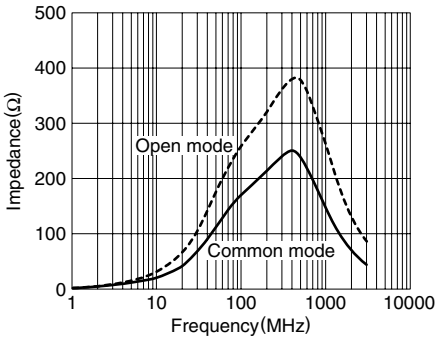
**TYPICAL ELECTRICAL CHARACTERISTICS**

**IMPEDANCE vs. FREQUENCY CHARACTERISTICS**

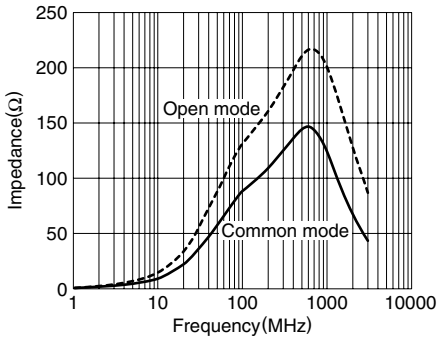
**MCZ1210AD102**



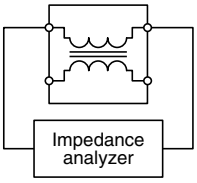

**MCZ1210AD221**



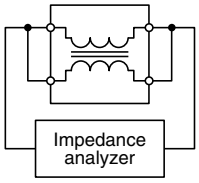

**MCZ1210AD121**




**MEASURING CIRCUITS**




Open mode




Common mode