

Chip Beads(SMD Array) For Audio / USB1.1 Signal Line

Conformity to RoHS Directive

MCZ Series MCZ1210-D Type(2-Line)

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

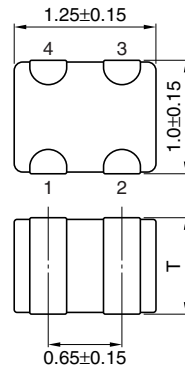
Audio signal lines used in cell phones and mobile audio devices, personal computers and peripheral equipment, PDA, digital camera, etc.

PRODUCT IDENTIFICATION

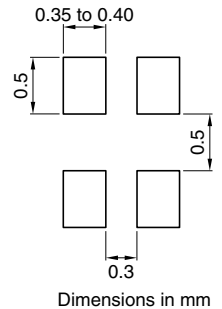
MCZ	1210	A	D	102	T
(1)	(2)	(3)	(4)	(5)	(6)

- (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

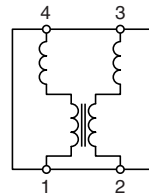


T
0.5±0.10
0.85±0.15



Dimensions in mm

CIRCUIT DIAGRAM



- No polarity



TEMPERATURE RANGES

Operating/Storage	-40 to +85°C
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PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	4000 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.

- 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.	Open mode impedance (Ω)[at 100MHz]*	DC resistance (Ω)max.	Insulation resistance (M Ω)min.	Rated voltage Edc(V)max.	Rated current Idc(mA)max.	Thickness T (mm)
MCZ1210AD102T	1000 $\pm$ 25%	0.75	1	5	50	0.85
MCZ1210AD221T	220 $\pm$ 25%	0.3	1	5	350	0.85
MCZ1210AD121T	120 $\pm$ 25%	0.2	1	5	500	0.85
MCZ1210AD121T002	120 $\pm$ 25%	0.2	1	5	500	0.5
MCZ1210AD900T002	90 $\pm$ 25%	0.2	1	5	500	0.5

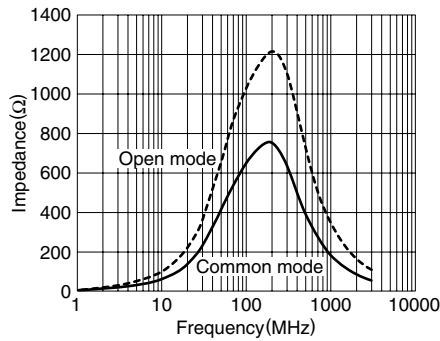
* Test equipment: E4991A or equivalent

Test tool: 16192A or equivalent

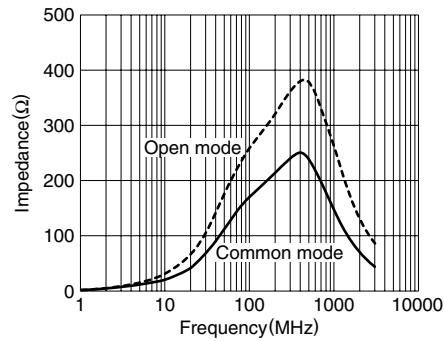
TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS

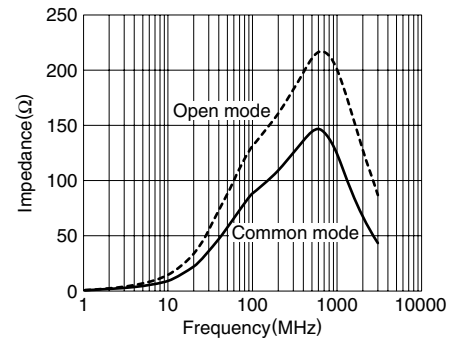
MCZ1210AD102



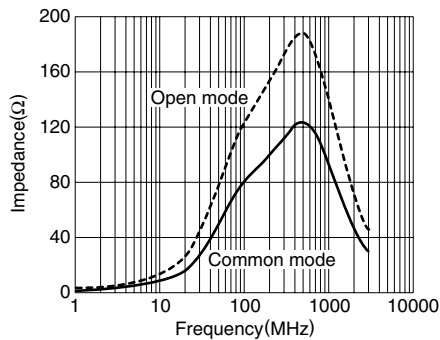
MCZ1210AD221



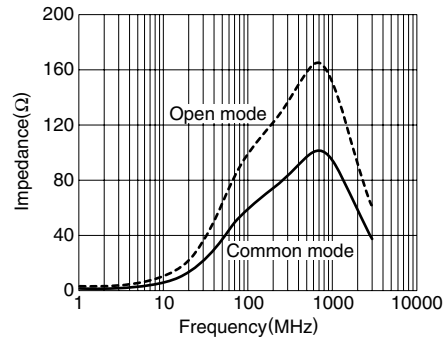
MCZ1210AD121



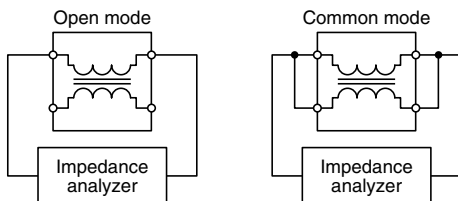
MCZ1210AD121T002



MCZ1210AD900T002

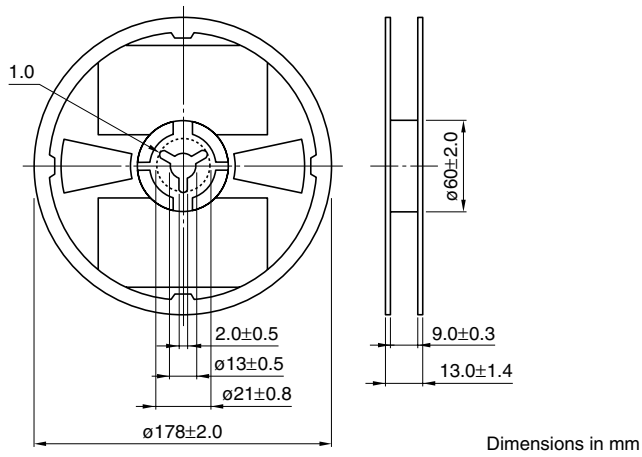


MEASURING CIRCUITS

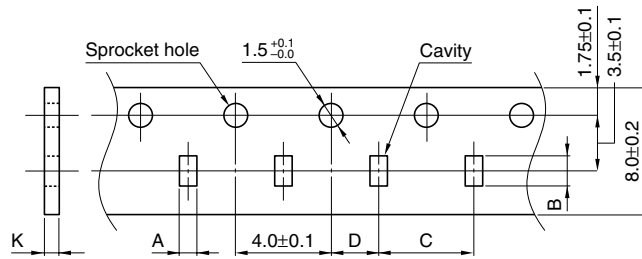


PACKAGING STYLES

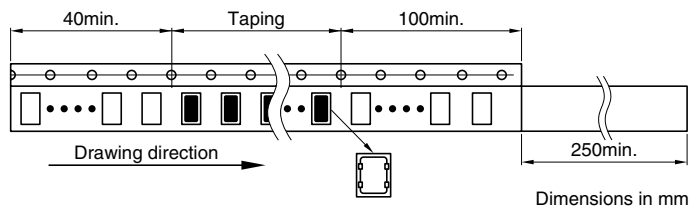
REEL DIMENSIONS



TAPE DIMENSIONS



Thickness	A	B	C	D	K
0.85mm	1.2 ± 0.1	1.45 ± 0.1	4.0 ± 0.1	2.0 ± 0.1	0.95 ± 0.10
0.50mm	1.2 ± 0.1	1.45 ± 0.1	4.0 ± 0.1	2.0 ± 0.1	0.60 ± 0.05



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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