⊗TDK

Common Beads

For audio/USB1.1 signal lines

MCZ series

Туре:	MCZ1210-D	1210[0504 inch]*
		* Dimensions Code JIS[EIA]
Issue date:	November 2011	

• All specifications are subject to change without notice.

• 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.

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Common Beads For Audio / USB1.1 Signal Lines

MCZ Series MCZ1210-D(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

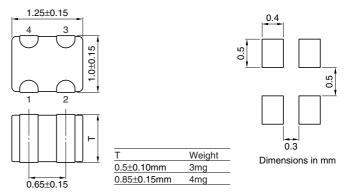
Removal of audio signal line noises of cellular phones, PCs, note PCs, DSCs, portable game machines, etc.

PRODUCT IDENTIFICATION

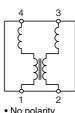
MCZ	1210	AD	102	Т	$\Box\Box\Box$
(1)	(2)	(3)	(4)	(5)	(6)

- (1) Series name
- (2) Dimensions L×W
- (3) Type name
- (4) Open mode impedance $102:1000\Omega$ at 100MHz
- (5) Packaging style
 - T:Taping
- (6) TDK internal code

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



CIRCUIT DIAGRAM





TEMPERATURE RANGES

Operating/Storage -40 to +85°C

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.
- 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 is 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.)

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ELECTRICAL CHARACTERISTICS

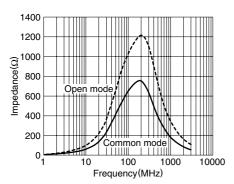
Part No.	Open mode impedance (Ω)[at 100MHz]*	DC resistance (Ω) max.	Insulation resistance (MΩ)min.	Rated voltage Edc(V)max.	Rated current Idc(mA)max.	Thickness T (mm)
MCZ1210AD102T	1000±25%	0.75	1	5	50	0.85
MCZ1210AD221T	220±25%	0.3	1	5	350	0.85
MCZ1210AD121T002	120±25%	0.2	1	5	500	0.5
MCZ1210AD900T002	90±25%	0.2	1	5	500	0.5

* Test equipment: E4991A or equivalent

Test tool: 16192A or equivalent

Test temperature: 25±10°C

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS MCZ1210AD102 MCZ1210AD221



500 400 Impedance(Ω) 300 oen mode O

200

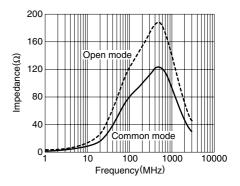
100

0 1

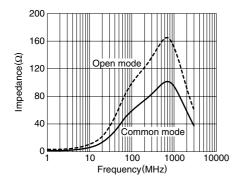
mode 10 100 1000 10000

Frequency(MHz)

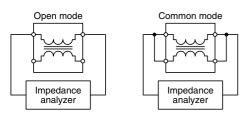
MCZ1210AD121T002



MCZ1210AD900T002

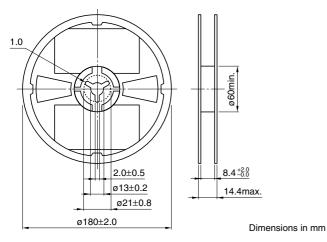


MEASURING CIRCUITS

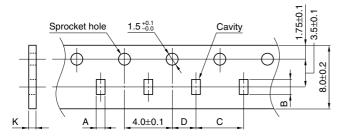


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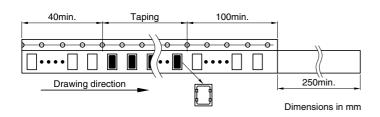
PACKAGING STYLES REEL DIMENSIONS



TAPE DIMENSIONS



Thickness	Α	В	С	D	К
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



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 PE-64683
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 T8114NLT
 RD5122-10-6M0
 TCM0806G-350-2P-T
 TCM0806G-650-2P-T

 IND-0110
 UAL21V07012500
 UAL21VR0802000
 UAL24VR06500CH
 UALSC023000000
 UALSC1020JH000
 UALSC1520JH000

 UALSU10VR20010
 UALSU16VD30030
 UALSU16VD40010
 UALSU9H0305000
 UALSU9HF060300
 UALSU9VD070100

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