

Common Mode Filters

For high-speed differential signal line
(USB2.0, LVDS, etc.)

MCZ series

Type:	MCZ1210AH	[0504 inch]*
	MCZ2010AH	[0804 inch]

* Dimensions Code [EIA]

Issue date: September 2012

- 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.

Common Mode Filters For High-speed Differential Signal Line (USB2.0, LVDS, etc.)

Conformity to RoHS Directive

MCZ Series MCZ1210AH

FEATURES

- Compact sized multilayer common mode filter.
- By providing wide bandwidth for differential mode, this product has almost no effect for high-speed differential signals and can suppress the radiated emission.

APPLICATIONS

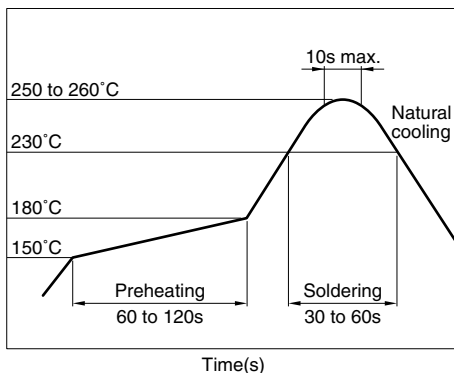
- High speed interface(LVDS and USB2.0) in electronics devices.
- Digital cellular phones, PCs, DSCs, portable game machines, etc.

PRODUCT IDENTIFICATION

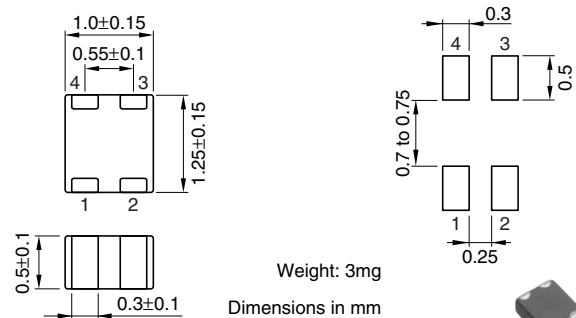
MCZ	1210	AH	360	L2	T
(1)	(2)	(3)	(4)	(5)	(6)

- (1) Series name
- (2) Dimensions L×W
- (3) Product identification number
- (4) Impedance[at 100MHz]
360: 36Ω
- (5) Number of line
L2: 2-line
- (6) Packaging style
T: Taping

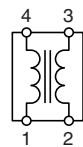
RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



SHAPES AND DIMENSIONS/ RECOMMENDED PC BOARD PATTERNS



CIRCUIT DIAGRAMS



- No polarity

TEMPERATURE RANGE

Operating	-40 to +85°C
Storage(After mount)	-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.

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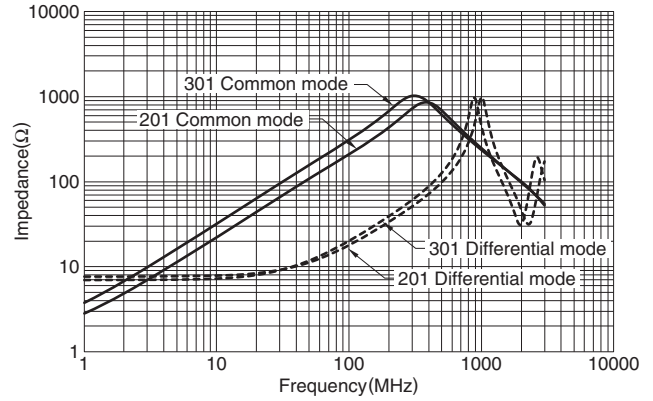
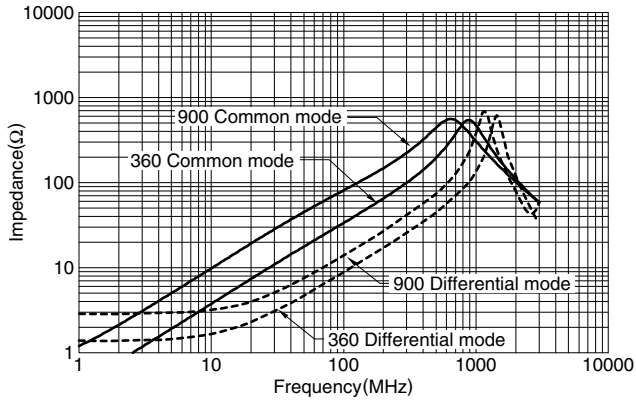
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ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω) [100MHz]	DC resistance (Ω)max.[1 line]	Rated current I _{dc} (mA)max.	Rated voltage E _{dc} (V)max.	Insulation resistance (M Ω)min.
MCZ1210AH360L2T	36 \pm 25%	1.00	200	5	10
MCZ1210AH900L2T	90 \pm 25%	1.75	100	5	10
MCZ1210AH201L2T	200 \pm 25%	4.00	100	5	10
MCZ1210AH301L2T	300 \pm 25%	4.50	100	5	10

TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS



Common Mode Filters For High-speed Differential Signal Line (USB2.0, LVDS, etc.)

Conformity to RoHS Directive

MCZ Series MCZ2010AH

FEATURES

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APPLICATIONS

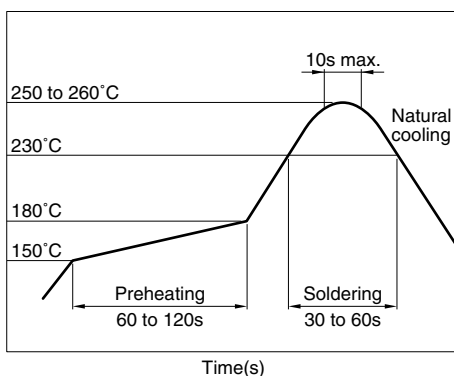
- High speed interface(LVDS and USB2.0) in electronics devices.
- PDP/LCD/DLP/PJ TVs, DVD players, notebook PCs, DVCs, DSCs, amusement machines, portable audio, digital cellular phones, etc.

PRODUCT IDENTIFICATION

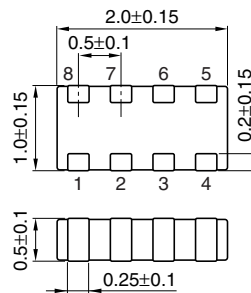
MCZ	2010	AH	900	L4	T
(1)	(2)	(3)	(4)	(5)	(6)

- (1) Series name
 (2) Dimensions L×W
 (3) Product identification number
 (4) Impedance[at 100MHz]
 900: 90Ω
 (5) Number of line
 L4: 4line
 (6) Packaging style
 T: Taping

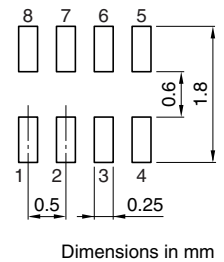
RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



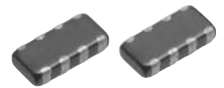
SHAPES AND DIMENSIONS/ RECOMMENDED PC BOARD PATTERNS



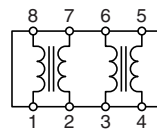
Weight: 5.0mg
 Dimensions in mm



Dimensions in mm



CIRCUIT DIAGRAMS



• No polarity

TEMPERATURE RANGE

Operating	-40 to +85°C
Storage(After mount)	-40 to +85°C

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	5000 pieces/reel

HANDLING AND PRECAUTIONS

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ELECTRICAL CHARACTERISTICS

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MCZ2010AH900L4T	90 \pm 25%	1.50	100	5	10
MCZ2010AH121L4T	120 \pm 25%	2.00	100	5	10
MCZ2010AH201L4T	200 \pm 25%	3.50	100	5	10

TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS

