

Common Mode Filters(SMD) For High-speed Differential Signal Line

Conformity to RoHS Directive

MCZ Series MCZ2010AH Type

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

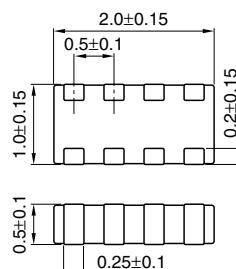
- High speed interface(LVDS and USB2.0) in electronics devices.
- PDP/LCD/DLP/PJ TVs, DVD players, notebook PCs, DVCs, DSCs, amusement machines, portable audio, digital cellular phones, etc.

PRODUCT IDENTIFICATION

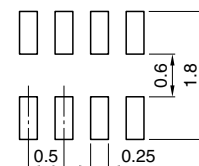
MCZ	2010	AH	900	T
(1)	(2)	(3)	(4)	(5)

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

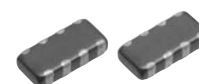
SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERNS



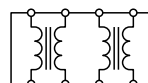
Weight: 5.0mg
 Dimensions in mm



Dimensions in mm



CIRCUIT DIAGRAMS



• No polarity

TEMPERATURE RANGE

Operating/Storage	-25 to +85°C
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PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	5000 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.

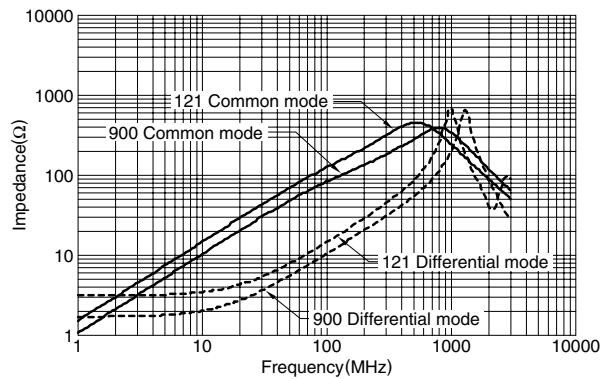
• All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω) [100MHz]	DC resistance (Ω) max.[1 line]	Rated current I_{dc} (A) max.	Rated voltage E_{dc} (V) max.	Insulation resistance (M Ω) min.
MCZ2010AH900T	90 \pm 25%	1.5	0.1	5	10
MCZ2010AH121T	120 \pm 25%	2.0	0.1	5	10

TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS



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