EMC Components

Common mode filters High-speed differential signal line(USB2.0, LVDS, etc.) **MCZ-AH** series



公TDK

MCZ0806AH type



FEATURES

Compact multilayer common mode filter.

O Has EMC suppression by achieving wide frequency range differential mode transmission while ensuring common mode impedance with virtually no affect on the high-speed differential transmission line signal.

○ Operating temperature range: -40 to +85°C

APPLICATION

C Electronic equipment high-speed interface (LVDS, USB2.0, MHL)

O Mobile phones, PCs, DSCs, portable game machines, etc.

O PDP/LCD/DLP/PJ TVs, DVD players, DVCs, mobile audio, etc.

O Application guides: Smart phones/tablets

PART NUMBER CONSTRUCTION

MCZ	0806	AH	220	L2	Т	A0G
Series name	L×W×T dimensions 0.85×0.65×0.45 mm	Product internal code	Impedance (Ω) at 100MHz	Number of lines	Packaging style	Internal code

CHARACTERISTICS SPECIFICATION TABLE

Common mode	e impedance	DC resistance	Rated current	Rated voltage	Insulation resistance	Part No.
[100MHz]		[1 line]				
(Ω)	Tolerance	(Ω)max.	(mA)max.	(V)max.	(M Ω) min.	
22	±8Ω	1.5	100	5	10	MCZ0806AH220L2TA0G
35	±25%	2.5	100	5	10	MCZ0806AH350L2TA0G
50	±25%	3.0	100	5	10	MCZ0806AH500L2TA0G
90	±25%	4.0	100	5	10	MCZ0806AH900L2TA0G

Measurement equipment

Measurement item	Product No.	Manufacturer
Common mode impedance	E4991A+16192A	Keysight Technologies
DC resistance	Type-7561	Yokogawa
Insulation resistance	4339B	Keysight Technologies

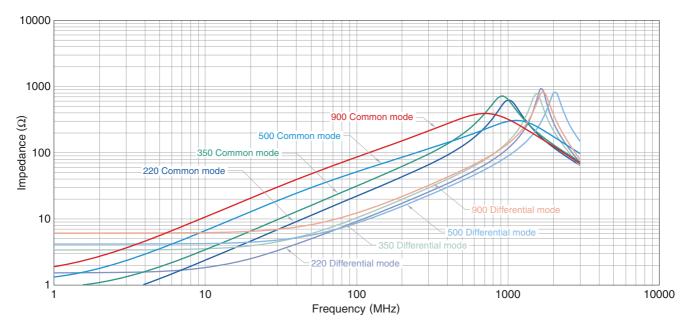
* Equivalent measurement equipment may be used.



Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (1/4)

MCZ0806AH type

■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS



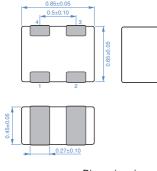
Measurement equipment

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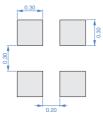
MCZ0806AH type

SHAPE & DIMENSIONS



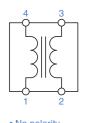
Dimensions in mm

RECOMMENDED LAND PATTERN



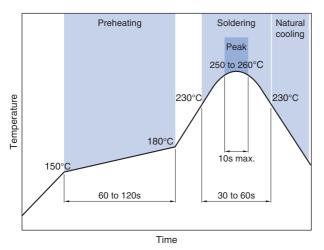
Dimensions in mm

CIRCUIT DIAGRAM



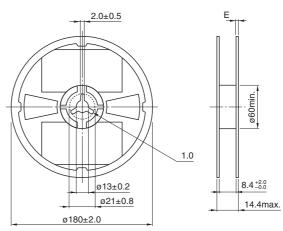
No polarity

RECOMMENDED REFLOW PROFILE



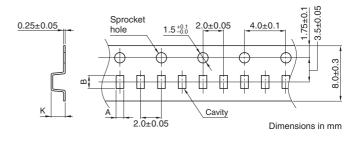
PACKAGING STYLE

REEL DIMENSIONS

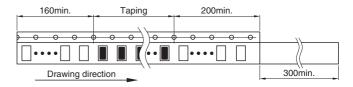


Dimensions in mm

TAPE DIMENSIONS



Туре	А	В	K
MCZ0806AH	0.75±0.05	0.95±0.05	0.6max.



Dimensions in mm

PACKAGE QUANTITY

Package quantity 10,000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range	Storage temperature range*	Individual weight
–40 to +85 °C	–40 to +85 °C	1.4 mg
* The storage temperature range is for after the assembly.		

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REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.

The storage period is less than 12 months. Be sure to follow the stores. If the storage period elegance, the coldering of the terminal electron.				
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.				
O Do not use or store in locations where there are conditions such as	s gas corrosion (salt, acid, alkali, etc.).			
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature does not exceed 150°C. 	e difference between the solder temperature and chip temperature			
 Soldering corrections after mounting should be within the range of If overheated, a short circuit, performance deterioration, or lifespar 	-			
When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.				
 Self heating (temperature increase) occurs when the power is tu design. 	rned ON, so the tolerance should be sufficient for the set thermal			
 Carefully lay out the coil for the circuit board design of the non-mag A malfunction may occur due to magnetic interference. 	gnetic shield type.			
\bigcirc Use a wrist band to discharge static electricity in your body through	n the grounding wire.			
\bigcirc Do not expose the products to magnets or magnetic fields.				
\bigcirc Do not use for a purpose outside of the contents regulated in the d	elivery specifications.			
ment, industrial robots) under a normal operation and use conditio The products are not designed or warranted to meet the requireme ity require a more stringent level of safety or reliability, or whose fa person or property.	ment, personal equipment, office equipment, measurement equip-			
 (1) Aerospace/aviation equipment (2) Transportation equipment (cars, electric trains, ships, etc.) (3) Medical equipment (4) Power-generation control equipment (5) Atomic energy-related equipment (6) Seabed equipment (7) Transportation control equipment When designing your equipment even for general-purpose application tection circuit/device or providing backup circuits in your equipment.	 (8) Public information-processing equipment (9) Military equipment (10) Electric heating apparatus, burning equipment (11) Disaster prevention/crime prevention equipment (12) Safety equipment (13) Other applications that are not considered general-purpose applications 			

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