#### EMC Components

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



ώΤDK

# MCZ0605AH type



#### FEATURES

O 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	0605	AH	350	SD	Т	000
Series name	L×W×T dimensions 0.65×0.5×0.3 mm	Product internal code	Impedance (Ω) at 100MHz	Number of lines	Packaging style	Internal code

#### CHARACTERISTICS SPECIFICATION TABLE

Common mode impedance		DC resista	nce	Rated current	Rated voltage	Insulation resistance	Part No.
[100MHz]		[1 line]					
<b>(</b> Ω <b>)</b>	Tolerance	<b>(</b> Ω <b>)</b>	Tolerance	(mA)max.	(V)max.	(MΩ)min.	
35	±25%	3.0	±30%	100	5	10	MCZ0605AH350SDT000
90	±20%	3.0	±30%	100	5	10	MCZ0605AH900SDT000

Measurement equipment

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

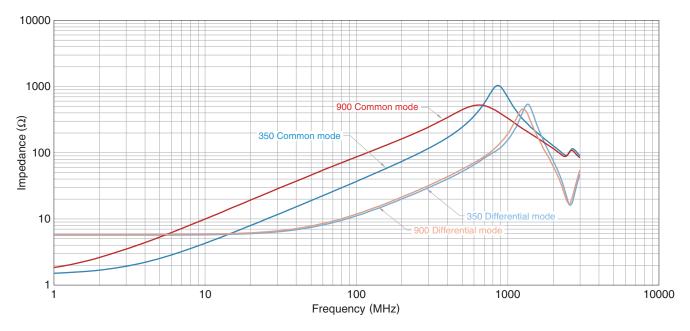
\* Equivalent measurement equipment may be used.



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# MCZ0605AH type

#### ■ IMPEDANCE VS. FREQUENCY CHARACTERISTICS



Measurement equipment

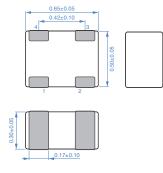
Product No.	Manufacturer
E4991A+16192A	Keysight Technologies

\* 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.
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Please note that the contents may change without any prior notice due to reasons such as upgrading.
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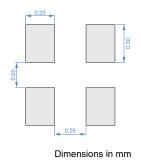
# MCZ0605AH type

#### SHAPE & DIMENSIONS



Dimensions in mm

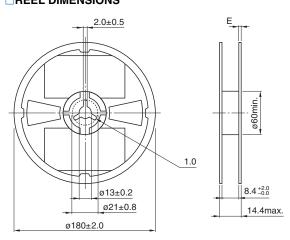
#### RECOMMENDED LAND PATTERN



**CIRCUIT DIAGRAM** 

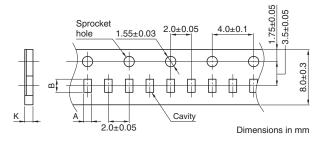
No polarity

# PACKAGING STYLE REEL DIMENSIONS

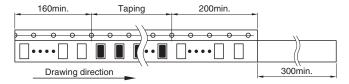


Dimensions in mm

#### **TAPE DIMENSIONS**



Туре	A	В	К
MCZ0605AH	0.63±0.03	0.77±0.03	0.42±0.03



Dimensions in mm

#### **PACKAGE QUANTITY**

Package quantity

10,000 pcs/reel

#### TEMPERATURE RANGE, INDIVIDUAL WEIGHT

	Operating	Storage	Individual	
	temperature range	temperature range*	weight	
	–40 to +85 °C	–40 to +85 °C	0.6 mg	
*	The storage temperature range is for after the assembly.			

Preheating Soldering Natural cooling Peak 250 to 260°C 230°C 10s max. 30 to 60s

## RECOMMENDED REFLOW PROFILE

Time	
Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe us Please note that the contents may change without any prior notice due to reasons such as upgrading.	e.

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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 storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.				
$\bigcirc$ Do not use or store in locations where there are conditions such as g	gas corrosion (salt, acid, alkali, etc.).			
Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.				
Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.				
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.				
<ul> <li>Self heating (temperature increase) occurs when the power is turn design.</li> </ul>	ed ON, so the tolerance should be sufficient for the set thermal			
<ul> <li>Carefully lay out the coil for the circuit board design of the non-magn A malfunction may occur due to magnetic interference.</li> </ul>	etic shield type.			
$\bigcirc$ Use a wrist band to discharge static electricity in your body through t	he 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 del	ivery specifications.			
<ul> <li>The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.</li> <li>The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.</li> <li>If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.</li> </ul>				
	<ul> <li>(8) Public information-processing equipment</li> <li>(9) Military equipment</li> <li>(10) Electric heating apparatus, burning equipment</li> <li>(11) Disaster prevention/crime prevention equipment</li> <li>(12) Safety equipment</li> <li>(13) Other applications that are not considered general-purpose applications</li> <li>, you are kindly requested to take into consideration securing pro-</li> </ul>			
When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing pro- tection circuit/device or providing backup circuits in your equipment.				

A 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. (4/4)

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