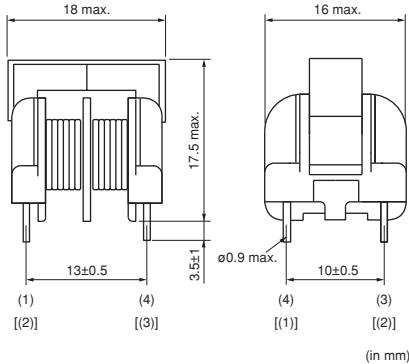


AC Line Filters Common Mode Choke Coil

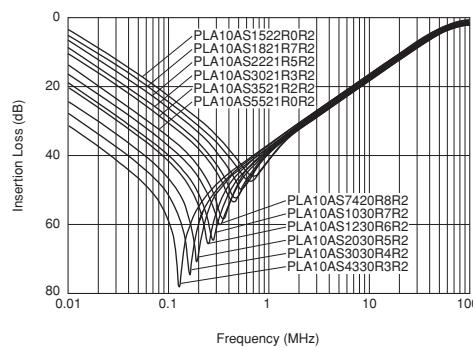
PLA10 Series (Safety Standard Recognized)

PLA10 Series (Safety Standard Recognized) Standard Winding Type

■ Dimension



■ Insertion Loss Characteristics (Main)



■ Rated Value (□: packaging code)

Part Number	Common Mode Inductance (min.)	Rated Current	Rated Voltage	Insulation Resistance (min.)
PLA10AS1522R0R2□	1.5mH	2.0A	250V	100M ohm
PLA10AS1821R7R2□	1.8mH	1.7A	250V	100M ohm
PLA10AS2221R5R2□	2.2mH	1.5A	250V	100M ohm
PLA10AS3021R3R2□	3.0mH	1.3A	250V	100M ohm
PLA10AS3521R2R2□	3.5mH	1.2A	250V	100M ohm
PLA10AS5521R0R2□	5.5mH	1.0A	250V	100M ohm
PLA10AS7420R8R2□	7.4mH	0.8A	250V	100M ohm
PLA10AS1030R7R2□	10.0mH	0.7A	250V	100M ohm
PLA10AS1230R6R2□	12.0mH	0.6A	250V	100M ohm
PLA10AS2030R5R2□	20.0mH	0.5A	250V	100M ohm
PLA10AS3030R4R2□	30.0mH	0.4A	250V	100M ohm
PLA10AS4330R3R2□	43.0mH	0.3A	250V	100M ohm

Operating Temperature Range: -25°C to 60°C Winding Temperature Rise (at Rated Current): 60°C (max.)

Continued on the following page. 

● This data sheet is applied for AC Line Filters Common Mode Choke Coil used for General Electronics equipment for your design.

⚠ Note:

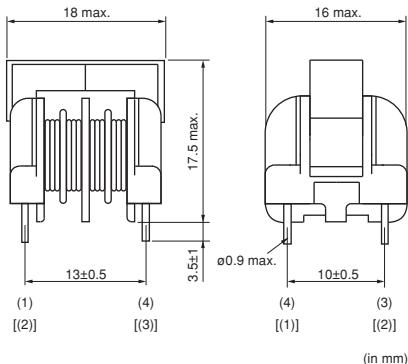
1. This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, its specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

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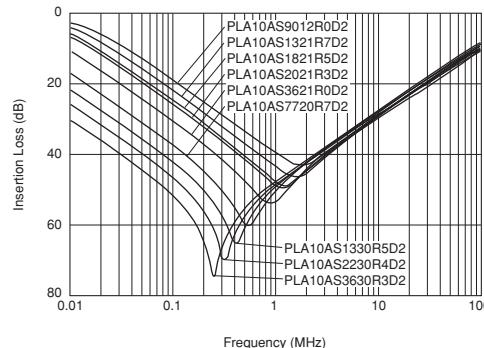
Continued from the preceding page.

PLA10Series (Safety Standard Recognized) Sectional Winding Type

■ Dimension



■ Insertion Loss Characteristics (Main)

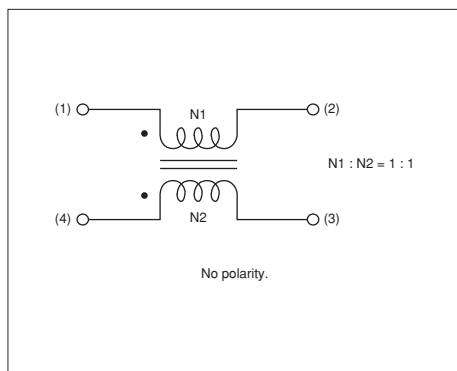


■ Rated Value (□: packaging code)

Part Number	Common Mode Inductance (min.)	Rated Current	Rated Voltage	Insulation Resistance (min.)
PLA10AS9012R0D2□	0.9mH	2.0A	250V	100M ohm
PLA10AS1321R7D2□	1.3mH	1.7A	250V	100M ohm
PLA10AS1821R5D2□	1.8mH	1.5A	250V	100M ohm
PLA10AS2021R3D2□	2.0mH	1.3A	250V	100M ohm
PLA10AS3621R0D2□	3.6mH	1.0A	250V	100M ohm
PLA10AS7720R7D2□	7.7mH	0.7A	250V	100M ohm
PLA10AS1330R5D2□	13.0mH	0.5A	250V	100M ohm
PLA10AS2230R4D2□	22.0mH	0.4A	250V	100M ohm
PLA10AS3630R3D2□	36.0mH	0.3A	250V	100M ohm

Operating Temperature Range: -25°C to 60°C Winding Temperature Rise (at Rated Current): 60°C (max.)

■ Equivalent Circuit



■ Packaging

Code	Packaging	Minimum Quantity
M	Magazine	1800
B	Box	1260

Continued on the following page.

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■ Caution (Rating)

1. Rated Current

Operating current should not exceed the rated value. Even if operating current is under the rated value, adequate ventilation is required to avoid excessive heat generated within the product (choke coil) and from surrounding heat sources. If exceeding these conditions, excessive heat may cause fumes or permanent damage to the product. Please ensure that product (choke coil) is evaluated and confirmed against the specification when it is mounted in your final assembled product.

-> Winding temperature should be less than 120 degree C.

*As for FKOB series winding temperature should be less than 95 degree C.

Maximum allowable temperature at the surface of coil (ambient temperature + winding temperature rise) is in accordance with each safety standard applicable to final assembled product.

When the temperature at winding exceeds maximum allowable temperature of safety standard, the rated current should be derated.

2. Inrush Current

Inrush current should not exceed 10 times rated current within 1/4 cycle of 50/60Hz commercial power line. Inrush current should be limited to a minimum of 10 seconds after last inrush.

If these conditions are exceeded, excessive heat may cause fumes or permanent damage to the component, or at worst cause ignition.

■ Notice (Soldering and Mounting)

Magnetic Flux Leakage

Choke coils generate small amounts of magnetic flux leakage that may adversely affect equipment operation according to component arrangement. Testing should be completed on final assembly to ensure equipment performance is not affected.

■ Notice (Other)

Coil Humming Noise

Magnetic flux generated between coil and core or between the choke coil windings creates repulsive power between the coil windings. This repulsive power causes the coil winding to vibrate and create a humming noise. The amount of hum produced by the coil is proportionate to the amount of harmonic distortion generated by the operating current. This does not influence the electrical performance of the coils, but it should be considered and tested in actual circuit application.

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