

EMI Suppression Filters (EMIFIL[®]) for AC Power Lines



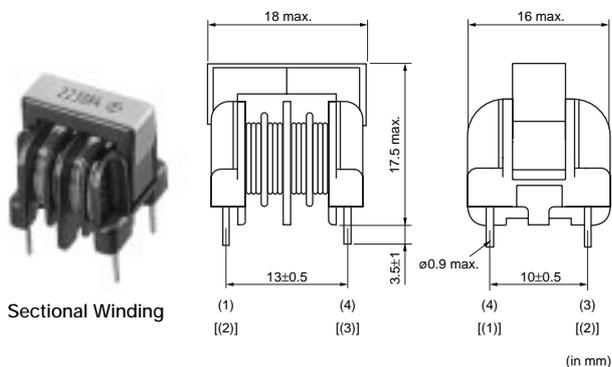
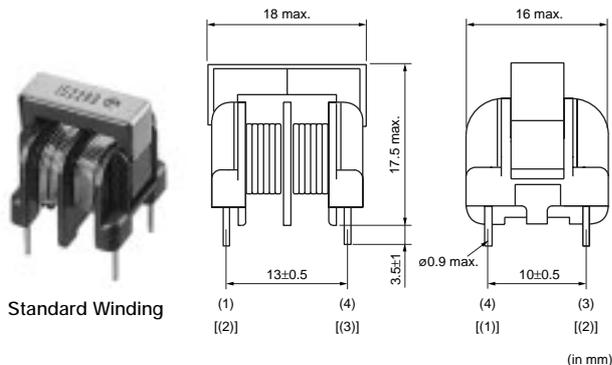
Common Mode Choke Coil

PLA10 Series

The PLA10 series is a compact size AC common mode choke coil. It can obtain a high inductance value in spite of its compact size.

■ Features

1. Compact and lightweight
2. Low profile in vertical core layout
3. Both a standard winding type and a sectional winding for higher frequency noise is available.



● Standard Winding

| Part Number | Common Mode Inductance (min.) (mH) | Rated Current (A) | Rated Voltage (V) | Insulation Resistance (min.) (M ohm) |
|-----------------|------------------------------------|-------------------|-------------------|--------------------------------------|
| PLA10AN1522R0R2 | 1.5 | 2.0 | 300 | 100 |
| PLA10AN1821R7R2 | 1.8 | 1.7 | 300 | 100 |
| PLA10AN2221R5R2 | 2.2 | 1.5 | 300 | 100 |
| PLA10AN3021R3R2 | 3.0 | 1.3 | 300 | 100 |
| PLA10AN3521R2R2 | 3.5 | 1.2 | 300 | 100 |
| PLA10AN5521R0R2 | 5.5 | 1.0 | 300 | 100 |
| PLA10AN7420R8R2 | 7.4 | 0.8 | 300 | 100 |
| PLA10AN1030R7R2 | 10.0 | 0.7 | 300 | 100 |
| PLA10AN1230R6R2 | 12.0 | 0.6 | 300 | 100 |
| PLA10AN2030R5R2 | 20.0 | 0.5 | 300 | 100 |
| PLA10AN3030R4R2 | 30.0 | 0.4 | 300 | 100 |
| PLA10AN4330R3R2 | 43.0 | 0.3 | 300 | 100 |

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

● Sectional Winding

| Part Number | Common Mode Inductance (min.) (mH) | Rated Current (A) | Rated Voltage (V) | Insulation Resistance (min.) (M ohm) |
|-----------------|------------------------------------|-------------------|-------------------|--------------------------------------|
| PLA10AN9012R0D2 | 0.9 | 2.0 | 300 | 100 |
| PLA10AN1321R7D2 | 1.3 | 1.7 | 300 | 100 |
| PLA10AN1821R5D2 | 1.8 | 1.5 | 300 | 100 |
| PLA10AN2021R3D2 | 2.0 | 1.3 | 300 | 100 |

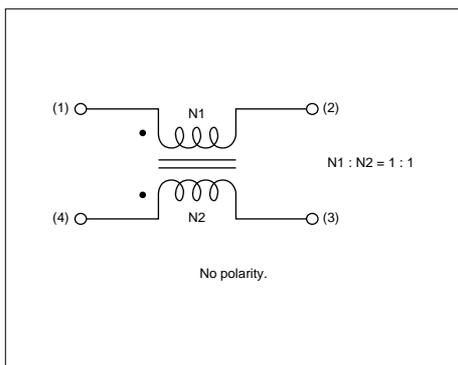
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| Part Number | Common Mode Inductance (min.) (mH) | Rated Current (A) | Rated Voltage (V) | Insulation Resistance (min.) (M ohm) |
|-----------------|------------------------------------|-------------------|-------------------|--------------------------------------|
| PLA10AN3621R0D2 | 3.6 | 1.0 | 300 | 100 |
| PLA10AN7720R7D2 | 7.7 | 0.7 | 300 | 100 |
| PLA10AN1330R5D2 | 13.0 | 0.5 | 300 | 100 |
| PLA10AN2230R4D2 | 22.0 | 0.4 | 300 | 100 |
| PLA10AN3630R3D2 | 36.0 | 0.3 | 300 | 100 |

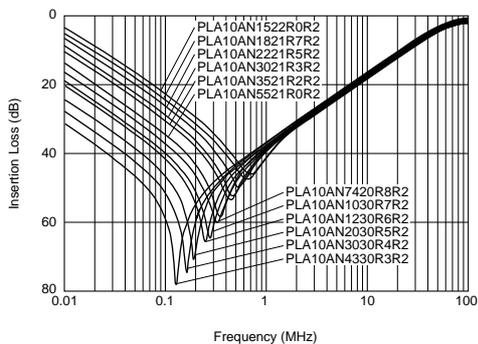
Operating Temperature Range: -25°C to 60°C Winding Temperature Rise (at Rated Current): 60°C (max.)

Equivalent Circuit Diagram

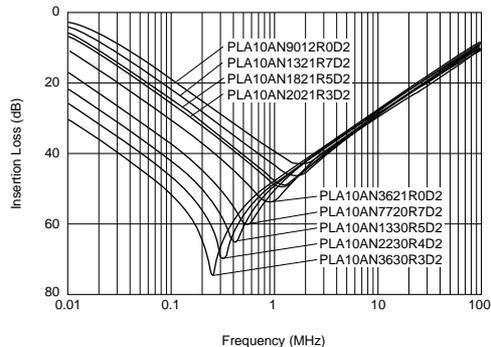


Insertion Loss - Frequency Characteristics

Standard Winding



Sectional Winding



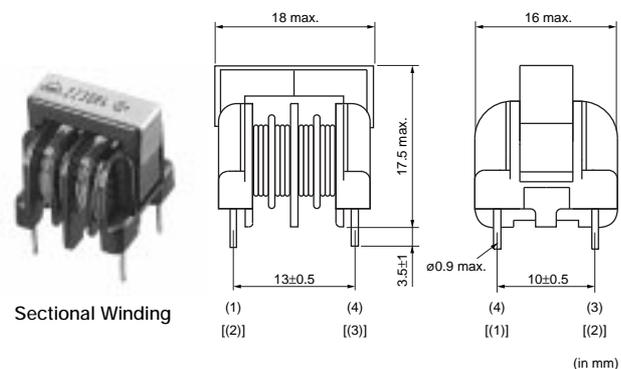
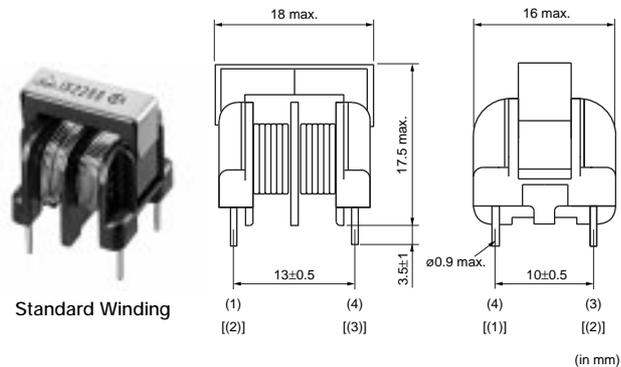
PLA10 Series (Safety Standard Recognized)

■ Features

1. Compact and lightweight
2. Low profile in vertical core layout
3. Both a standard winding and a sectional winding for higher frequency noise is available.
4. Safety standards: EN60065

■ Applications

Noise suppression of AC power lines



● Standard Winding

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

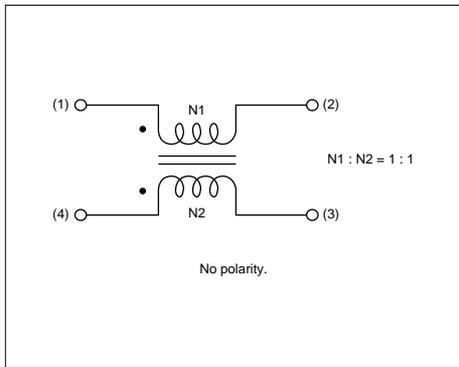
Operating Temperature Range : -25°C to 60°C Winding Temperature Rise (at Rated Current): 60°C (max.)

● Sectional Winding

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

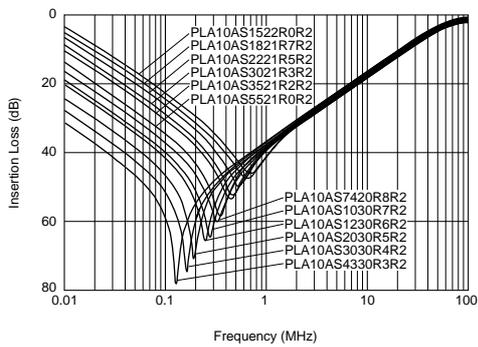
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■ Equivalent Circuit Diagram



■ Insertion Loss - Frequency Characteristics

Standard Winding



Sectional Winding

