

PLT10HH501100PN#

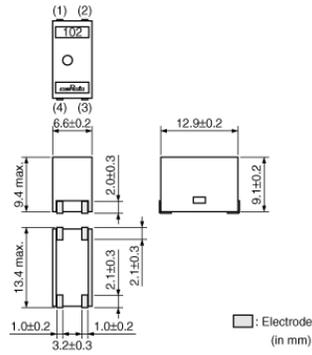
“#” indicates a package specification code.



< List of part numbers with package codes >

PLT10HH501100PNB PLT10HH501100PNK PLT10HH501100PNL

Appearance & Shape



Packaging Information

Packaging	Specifications	Standard Packing Quantity
B	Bulk(Bag)	50
K	330mm Embossed Tape	500
L	180mm Embossed Tape	125

Applications

Automotive Usage	Powertrain/Safety
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Attention

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- This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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Features

Features

1. Meets large current up to 18A max. suitable for power lines.
2. Meets to surface mounting.
3. Large common mode impedance up to 1000ohm [at 10MHz] enables good noise suppression effect.
4. Wide operating temperature range.
 - 55°C to 125°C
[PLT10HH101150PN / PLT10HH401100PN /
PLT10HH450180PN / PLT10HH9016R0PN]
 - 55°C to 105°C
[PLT10HH1026R0PN / PLT10HH501100PN]

Application

Common mode noise suppression for motors in automotive equipments, audio amps for automotive, car navigations.
Also available for non-automotive applications.

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Specifications

Brand	Murata
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Shape	SMD
Length	12.9mm
Length Tolerance	±0.2mm
Width	6.6mm
Width Tolerance	±0.2mm
Thickness	9.4mm
Thickness Tolerance	max.
Common Mode Impedance (at 10MHz)	500Ω
Common Mode Impedance (at 10MHz) Tolerance	(Typ.)
Rated Current	10A
Derating of Rated Current	Yes (Over 65°C) *For details, please check the derating diagram.
Rated Voltage	100Vdc
Withstanding Voltage	250Vdc
DC Resistance(max.)	4.1mΩ
DC Resistance	3.6mΩ±0.5mΩ
Insulation Resistance(min.)	10MΩ
Operating Temperature Range	-55°C to 105°C
Mass(typ.)	2.1g
Number of Circuit	1
Common Mode Inductance	9μHmin.
Operating Temperature Range(Self-temperature rise is included)	Yes

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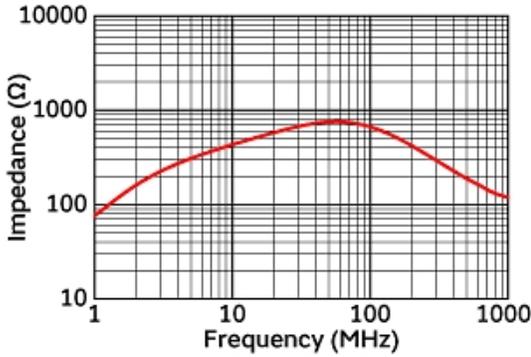
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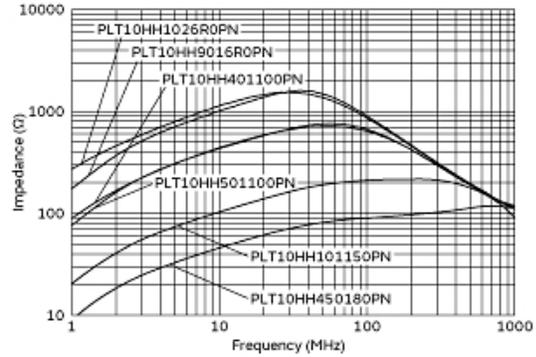
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Product Data



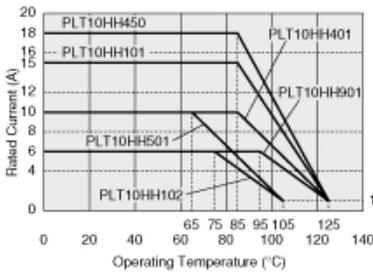
Impedance-Frequency Characteristics



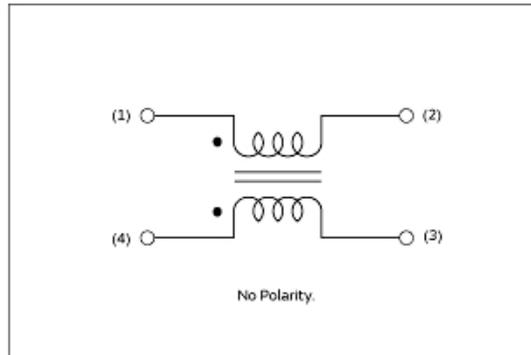
Impedance-Frequency Characteristics (Main Items)

In operating temperature exceeding +65°C, derating of current is necessary for PLT10H series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



Derating of Rated Current



Equivalent Circuit

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