

## PLT10HH450180PN#

“#” at the end indicates the package specification code.

In Production

**AEC-  
Q200**

RoHS

REACH

< List of part numbers with package codes >

PLT10HH450180PNB

PLT10HH450180PNK

PLT10HH450180PNL

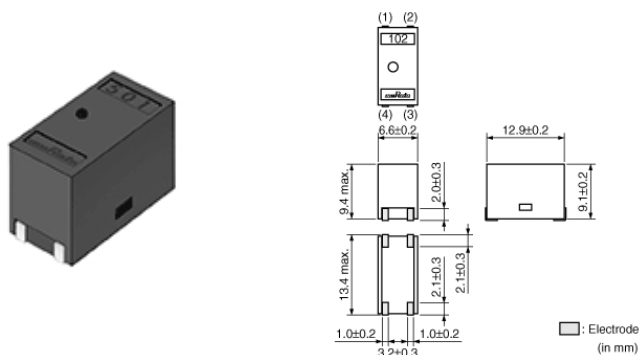
## Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	<p>Automotive powertrain/safety equipment, Automotive infotainment/comfort equipment, Medical equipment [GHTF A/B/C] except for implant &amp; surgery &amp; auto injector</p> <p>Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product.</p>
Recommended Applications	Automotive powertrain/safety equipment

## Packaging Information

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

## Appearance & Shape



1 of 4

## Attention

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2. This datasheet has only typical specifications because there is no space for detailed specifications.

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## Features

### Features

1. Meets large current up to 18Amax. 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

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)	45Ω
Common Mode Impedance (at 10MHz) Tolerance	(Typ.)
Rated Current	18A
Derating of Rated Current	Yes (Over 85°C) *For details, please check the derating diagram.
Rated Voltage	300Vdc
Withstanding Voltage	750Vdc
DC Resistance(max.)	1.8mΩ
DC Resistance	1.3mΩ±0.5mΩ
Insulation Resistance(min.)	10MΩ
Operating Temperature Range	-55°C to 125°C
Mass(typ.)	2.1g
Number of Circuit	1
Common Mode Inductance	0.8μH min.
Operating Temperature Range(Self-temperature rise is included)	Yes
Brand	Murata

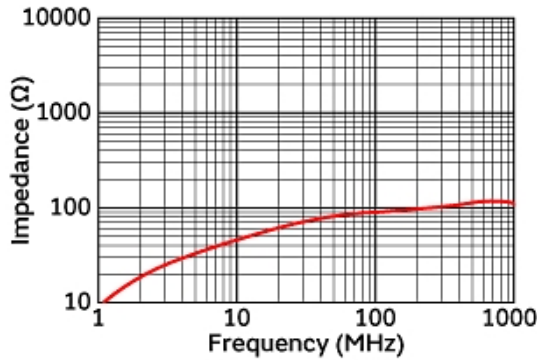
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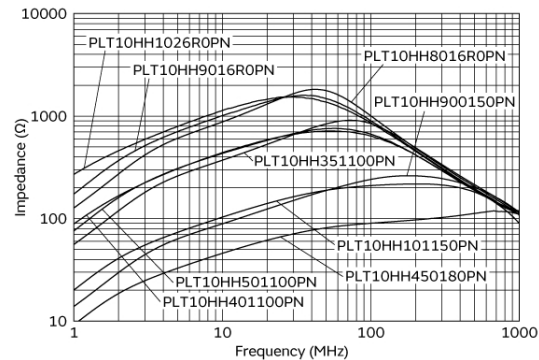
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## Product Data



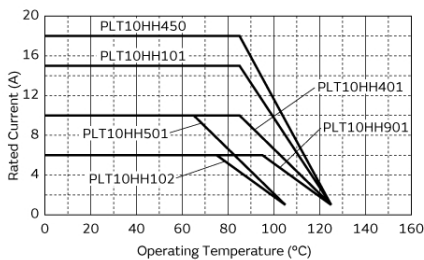
Impedance-Frequency Characteristics



Impedance-Frequency Characteristics (Main Items)

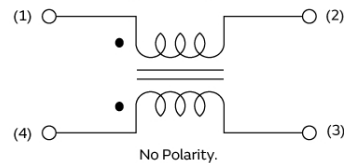
In operating temperature exceeding +65°C, derating of current is necessary for PLT10H series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current

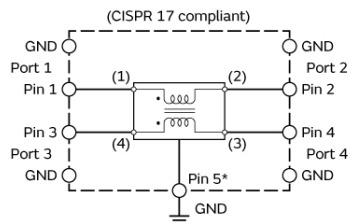


Derating of Rated Current

### Equivalent Circuit (Note 1)



Note1: The Port/Pin No. of the Simulation Model provided by our company is as follows.



S-parameter: Port ☐  
SPICE model: Pin ☐ (Pin5\* connect to GND)

Equivalent Circuit

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