

# PLT10HH9016R0PN#

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

In Production

AEC-Q200

RoHS

REACH

## < List of part numbers with package codes >

PLT10HH9016R0PNB

PLT10HH9016R0PNK

PLT10HH9016R0PNL

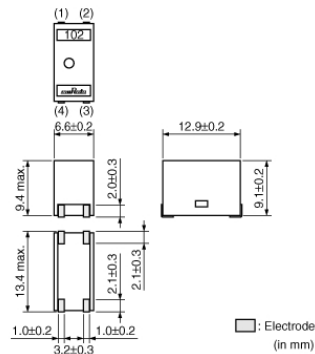
## Applications

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specific Applications    | Automotive powertrain/safety equipment, Automotive infotainment/comfort equipment, Consumer equipment, Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector, Industrial Equipment<br>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. |
| 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



### Attention

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- 2.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 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)                               | 900Ω                                                                |
| Common Mode Impedance (at 10MHz) Tolerance                     | (Typ.)                                                              |
| Rated Current                                                  | 6A                                                                  |
| Derating of Rated Current                                      | Yes (Over 95°C)<br>*For details, please check the derating diagram. |
| Rated Voltage                                                  | 100Vdc                                                              |
| Withstanding Voltage                                           | 250Vdc                                                              |
| DC Resistance(max.)                                            | 8.5mΩ                                                               |
| DC Resistance                                                  | 8.0mΩ±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                                         | 14μH min.                                                           |
| Operating Temperature Range(Self-temperature rise is included) | Yes                                                                 |
| Brand                                                          | Murata                                                              |

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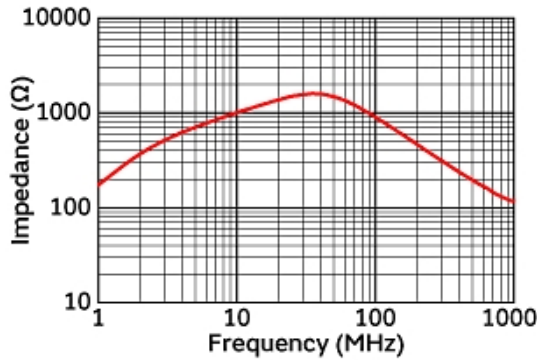
# PLT10HH9016R0PN#

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Please download the latest datasheet of PLT10HH9016R0PN# from the official website of Murata

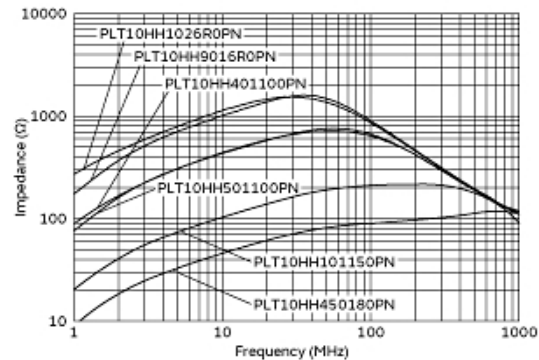
<http://www.murata.com/en/products/productdetail?partno=PLT10HH9016R0PN%23>

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## Product Data



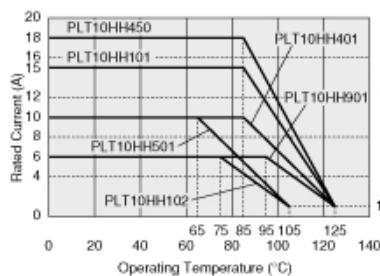
Impedance-Frequency Characteristics



Impedance-Frequency Characteristics  
(Main Items)

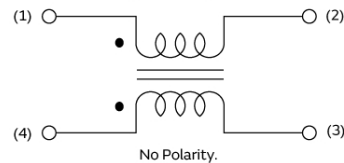
In operating temperature exceeding +65°C, derating of current is necessary for PLT10H series.  
Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current

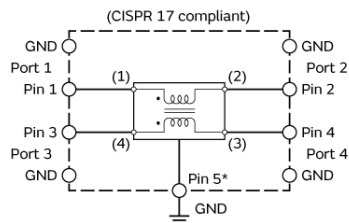


Derating of Rated Current

### 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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