

# PLT5BPH5013R1SN#

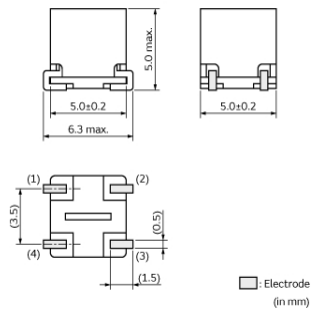
“#” indicates a package specification code.



## < List of part numbers with package codes >

PLT5BPH5013R1SNL      PLT5BPH5013R1SNB

## Appearance & Shape



## Features

### Features

- 1.It can be used under the -55 °C ~ +150 °C usage environment.
- 2.Meets large current up to 5.6Amax. suitable for power lines.
- 3.Meets to surface mounting.
- 4.Large common mode impedance up to 500ohm (at 10mhz) enables good noise suppression effect.

### Application

Common mode noise suppression in automotive equipments, audio amps for automotive, car navigations, and other general power lines.

## Applications

|                  |                   |
|------------------|-------------------|
| Automotive Usage | Powertrain/Safety |
|------------------|-------------------|

## Packaging Information

| Packaging | Specifications      | Standard Packing Quantity |
|-----------|---------------------|---------------------------|
| L         | 180mm Embossed Tape | 300                       |
| B         | Bulk(Bag)           | 50                        |

### Attention


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

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## Specifications

|  |  |
|--|--|
| Shape  | SMD  |
| Size Code (in mm)  | 5050   |
| Size Code (in inch)  | 2020   |
| Length   | 5.0mm  |
| Length Tolerance   | ±0.2mm   |
| Width  | 5.0mm  |
| Width Tolerance  | ±0.2mm   |
| Thickness  | 5.0mm  |
| Thickness Tolerance  | max.   |
| Common Mode Impedance (at 10MHz)                               | 500Ω   |
| Common Mode Impedance (at 10MHz) Tolerance                     | (Typ.)   |
| Rated Current  | 3.1A   |
| Derating of Rated Current                                      | Yes (Over 125°C)<br>*For details, please check the derating diagram. |
| Rated Voltage  | 80Vdc  |
| Withstanding Voltage   | 200Vdc   |
| DC Resistance(max.)  | 22.1mΩ   |
| DC Resistance  | 17mΩ±30%   |
| Insulation Resistance(min.)                                    | 10MΩ   |
| Operating Temperature Range                                    | -55°C to 150°C   |
| Mass(typ.)   | 0.48g  |
| Number of Circuit  | 1  |
| Operating Temperature Range(Self-temperature rise is included) | No   |

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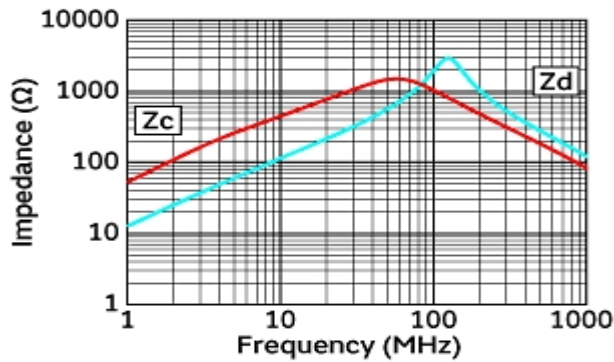
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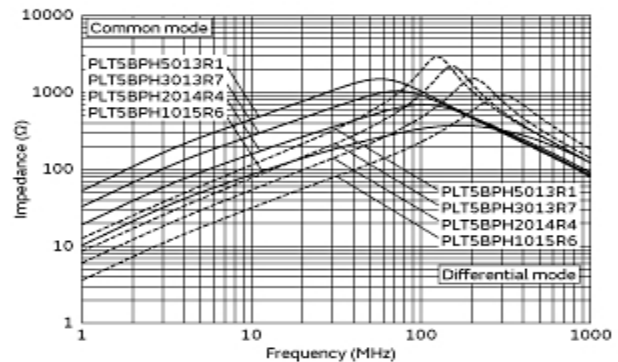
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## Product Data



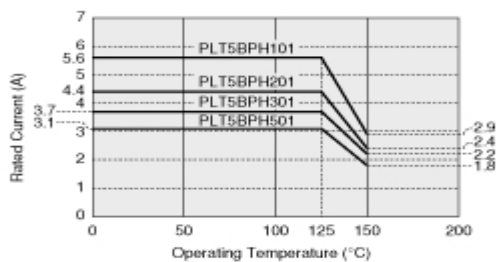
Impedance-Frequency Characteristics



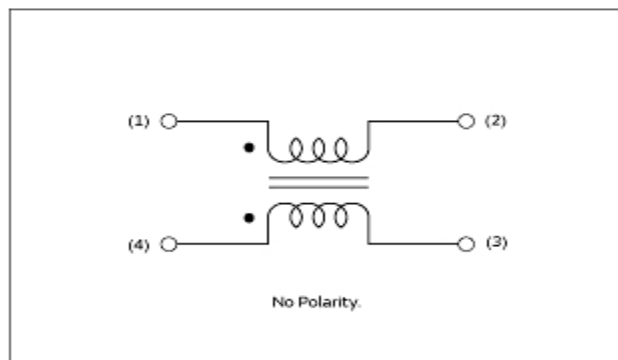
Impedance-Frequency Characteristics  
(Main Items)

In operating temperature exceeding +125°C, derating of current is necessary for PLT5BP 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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