# PLT10HN450180P0#

"#" indicates a package specification code.

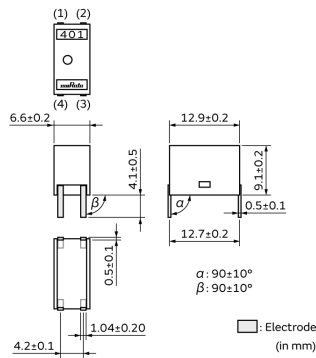In Production   RoHS   REACH

## < List of part numbers with package codes >
PLT10HN450180P0B

## Appearance & Shape



## Features

Features
1. Meets large current up to 18A max. suitable for power lines.
2. Leaded type.
3. Large common mode impedance up to 400ohm [at 10MHz] enables good noise suppression effect.
4. Wide operating temperature range from -55°C to 125°C. [PLT10HN401100P0 / PLT10HN101150P0 / PLT10HN450180P0]

Application
Common mode noise suppression for power supply lines.

## Applications

| Other Usage | For general |
|---|---|

## Packaging Information

| Packaging | Specifications | Standard Packing Quantity |
|---|---|---|
| B | Bulk(Bag) | 100 |

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Product Search Data Sheet

Note: This datasheet may be out of date.
Please download the latest datasheet of PLT10HN450180P0# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=PLT10HN450180P0%23

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## ◤ Specifications

| | |
|---|---|
| Shape | Lead |
| Length | 12.9mm |
| Length　Tolerance | ±0.2mm |
| Width | 6.6mm |
| Width Tolerance | ±0.2mm |
| Thickness | 9.1mm |
| Thickness　Tolerance | ±0.2mm |
| Common Mode Impedance (at 10MHz) | 45Ω |
| Common Mode Impedance (at 10MHz) Tolerance | (Typ.) |
| Rated Current | 18A |
| Derating of Rated Current | Yes (Over 85℃) *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℃ to 125℃ |
| Mass(typ.) | 2.1g |
| Number of Circuit | 1 |
| Common Mode Inductance | 0.8μH min. |
| Operating Temperature Range(Self-temperature rise is included) | Yes |

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## Product Data
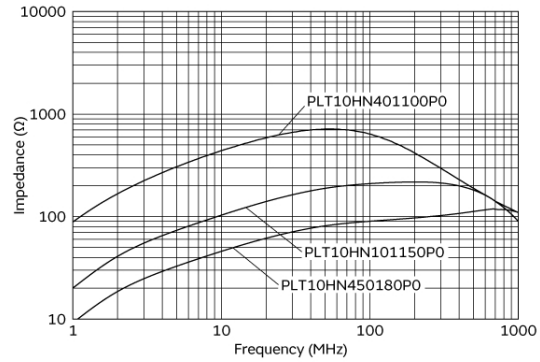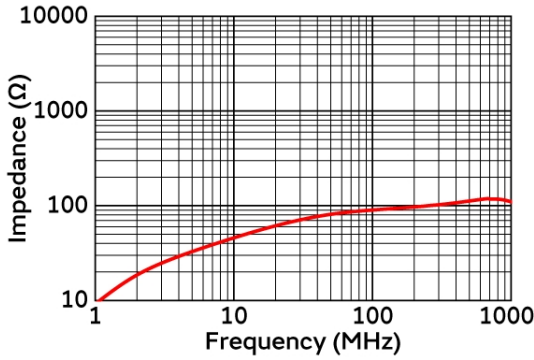


### Impedance-Frequency Characteristics



### Impedance-Frequency Characteristics (Main Items)

In operating temperature exceeding +85°C, derating of current is necessary for PLT10HN series.
Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



### Derating of Rated Current



No Polarity.

### Equivalent Circuit

**Attention**

1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
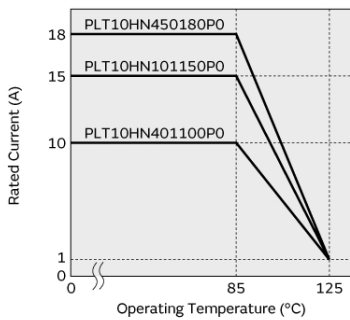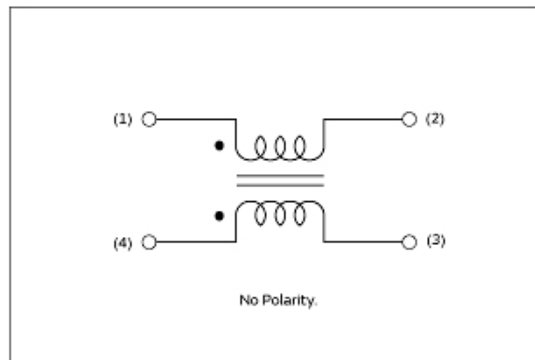2.This datasheet has only typical specifications because there is no space for detailed specifications.
Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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Last updated 11/01/2021