

PLT5BPH5013R1SN#

Note: This datasheet may be out of date

Please download the latest datasheet of PLT5BPH5013R1SN# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-gb/products/productdetail?partno=PLT5BPH5013R1SN%23

"#"at the end indicates the package specification code.

In Production







< List of part numbers with package codes > PLT5BPH5013R1SNB PLT5BPH5013R1SNL



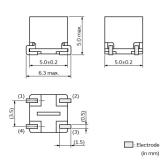
Applications

Unsuitable	Please be sure to read and comply with	
Applications	these "Precautions for use."	
	Automotive powertrain/safety equipment,	
	Automotive infotainment/comfort	
	equipment,Consumer equipment,	
	Medical equipment [GHTF A/B/C]	
	except for implant & surgery & auto	
	injector,Industrial Equipment	
Specific	Please refer to Our Website and	
Applications	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	Automotivo powartrain/cafety equipment	
Applications	Automotive powertrain/safety equipment	



Appearance & Shape







Packaging Information

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



Features

Features

- 1.lt can be used under the -55 °C \sim +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.

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Specifications

	OMB.
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	(Тур.)
Rated Current	3.1A
Derating of Rated Current	Yes (Over 125°C) *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.)	10ΜΩ
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

ı		
	Brand	Murata
	2.4	11101101101

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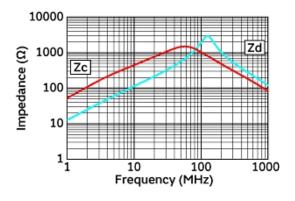
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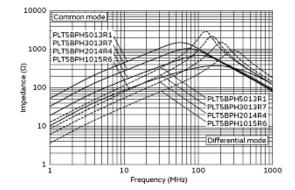
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Product Data



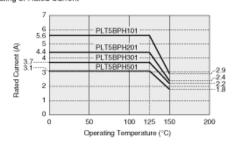


Impedance-Frequency Characteristics

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.

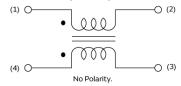
Derating of Rated Current



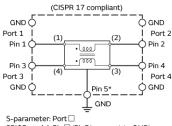
Derating of Rated Current

Impedance-Frequency Characteristics (Main Items)

■ Equivalent Circuit (Note 1)



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



SPICE model: Pin ☐ (Pin5* connect to GND)

Equivalent Circuit

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