

Note: This datasheet may be out of date. Please download the latest datasheet of DLW5BTH501TQ2# from the official website of Murata Manufacturing Co., Ltd.

Appearance & Shape

http://www.murata.com/en/products/productdetail?partno=DLW5BTH501TQ2%23

### "#" indicates a package specification code.

DLW5BTH501TQ2#

In Production AEC-Q200 RoHS REACH

< List of part numbers with package codes > DLW5BTH501TQ2B DLW5BTH501TQ2K I

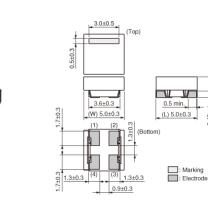
DLW5BTH501TQ2L



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 & operation & auto-	
	dispenser equipment,Industrial	
	equipment except for transportation &	
Specific	facility & energy equipment	
Applications	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	Automotivo powertrain/eafaty aquinment	
Applications	Automotive powertrain/safety equipment	







## Packaging Information

Packaging	Specifications	Standard Packing Quantity
В	Bulk(Bag)	100
К	330mm Embossed Tape	2500
L	180mm Embossed Tape	700

#### Attention

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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.



Last updated07/25/2023

(in mm)



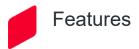
Product Search Data Sheet

# DLW5BTH501TQ2#

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Features

- 1. Low profile (h=2.5mm)
- 2. Small size (5.0x5.0mm) and high rated current (1.5 to 4A)
- High common mode Impedance (max. 1400 ohm, at 100MHz)
- 4. Operating Temperature Range:-40°C to +125°C

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# Specifications

Shape	SMD
Size Code (in mm)	5050
Size Code (in inch)	2020
Length	5.0mm
Length Tolerance	±0.3mm
Width	5.0mm
Width Tolerance	±0.3mm
Thickness	2.35mm
Thickness Tolerance	±0.15mm
Common Mode Impedance (at 100MHz)	500Ω
Common Mode Impedance (at 100MHz) Tolerance	(Тур.)
Common Mode Impedance (at 10MHz)	30Ω
Common Mode Impedance (at 10MHz) Tolerance	min.
Rated Current	2.5A
Derating of Rated Current	Yes (Over 105°C) *For details, please check the derating diagram.
Rated Voltage	50Vdc
Withstanding Voltage	125Vdc
DC Resistance(max.)	0.027Ω
DC Resistance	0.027Ω max.
Insulation Resistance(min.)	10ΜΩ
Operating Temperature Range	-40℃ to 125℃
Mass(typ.)	0.21g

Number of Circuit	1
Operating Temperature Range(Self-temperature rise is included)	No
Brand	Murata

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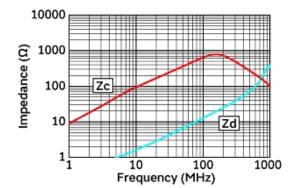
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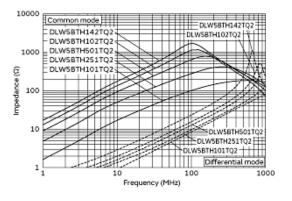
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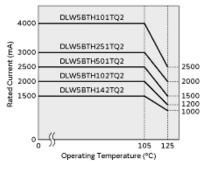




Impedance-Frequency Characteristics

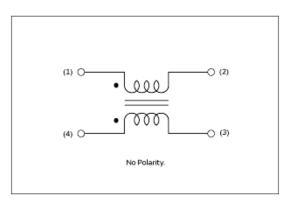
In operating temperature exceeding +105°C, derating of current is necessary for DLW5BTH\_TQ2 series. Please apply the derating curve shown in chart according to the operating temperature.





Derating of Rated Current

Impedance-Frequency Characteristics (Main Items)



Equivalent Circuit

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