

# DLW5BTH251TQ2#

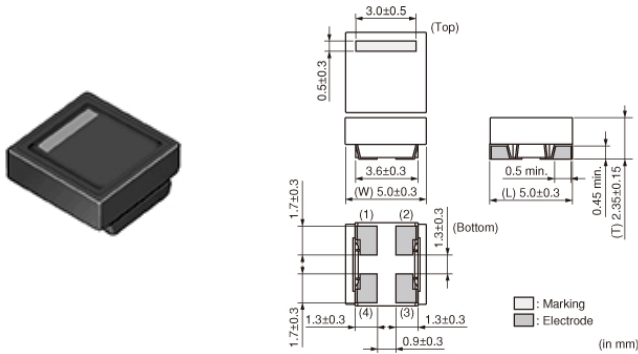
“#” indicates a package specification code.



## < List of part numbers with package codes >

DLW5BTH251TQ2B      DLW5BTH251TQ2K      DLW5BTH251TQ2L

## Appearance & Shape



## Packaging Information

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

## Features

### Features

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

## Applications

Automotive Usage	Powertrain/Safety
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### 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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## 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)	250Ω
Common Mode Impedance (at 100MHz) Tolerance	(Typ.)
Common Mode Impedance (at 10MHz)	20Ω
Common Mode Impedance (at 10MHz) Tolerance	min.
Rated Current	3A
Derating of Rated Current	Yes (Over 105°C) *For details, please check the derating diagram.
Rated Voltage	50Vdc
Withstanding Voltage	125Vdc
DC Resistance(max.)	0.02Ω
DC Resistance	0.020Ω max.
Insulation Resistance(min.)	10MΩ
Operating Temperature Range	-40°C to 125°C
Mass(typ.)	0.21g

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

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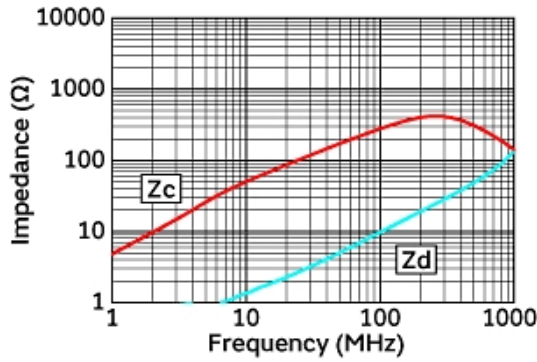
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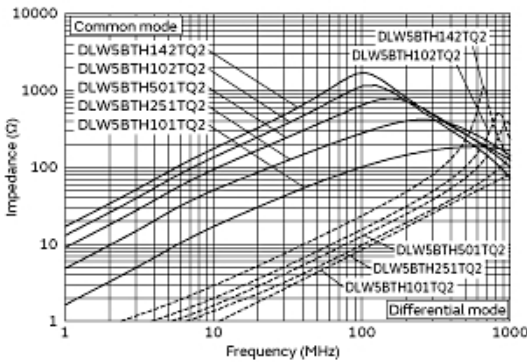
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## Product Data



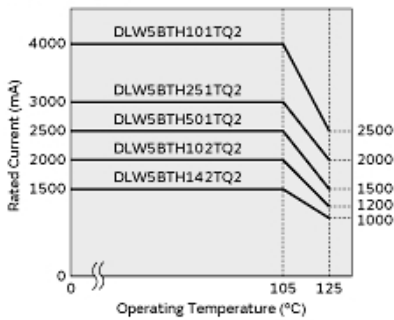
Impedance-Frequency Characteristics



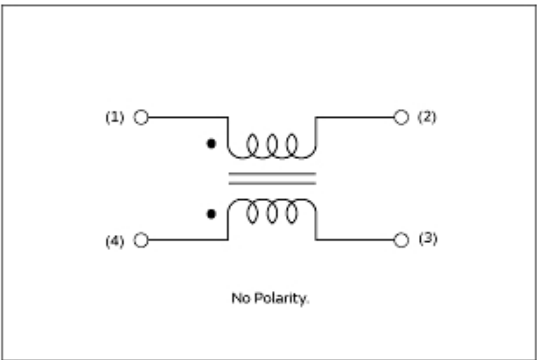
Impedance-Frequency Characteristics  
(Main Items)

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



Derating of Rated Current



Equivalent Circuit

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