

DLW5BTH501TQ2#

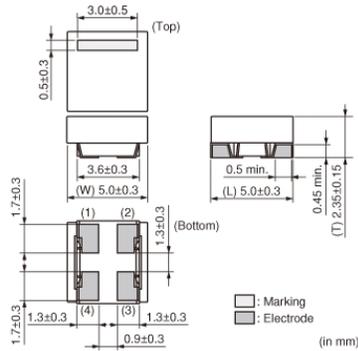
“#” indicates a package specification code.



< List of part numbers with package codes >

DLW5BTH501TQ2B DLW5BTH501TQ2K DLW5BTH501TQ2L

Appearance & Shape



Applications

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

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

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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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 | (Typ.) |
| 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.) | 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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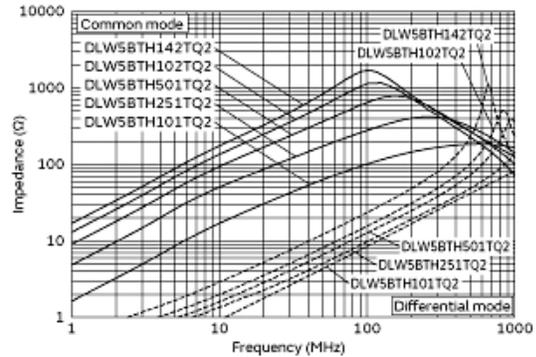
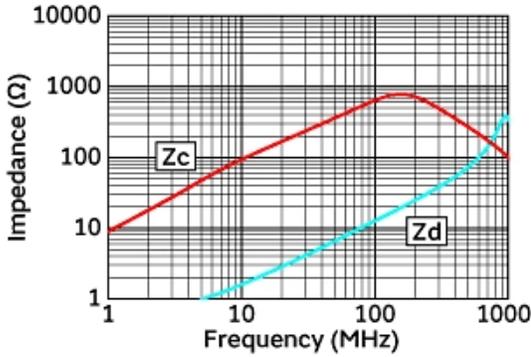
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Product Data

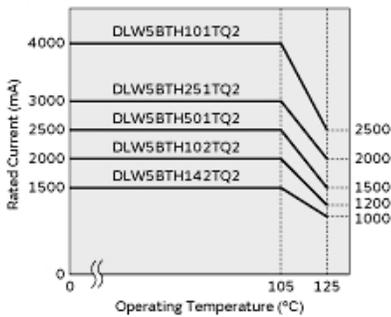


Impedance-Frequency Characteristics

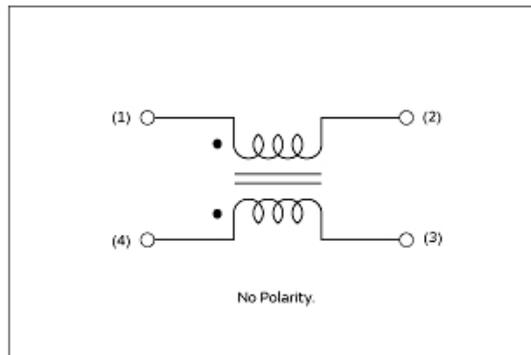
Impedance-Frequency Characteristics (Main Items)

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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