

# DLW5BTM102TQ2#

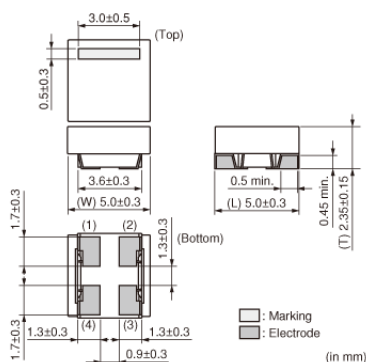
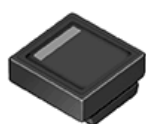
“#” indicates a package specification code.



< List of part numbers with package codes >

DLW5BTM102TQ2K DLW5BTM102TQ2L DLW5BTM102TQ2B

## Appearance & Shape



## Features

### Features

1. Low profile ( $h=2.5\text{mm}$ )
2. Small size ( $5.0 \times 5.0\text{mm}$ ) and high rated current (2 to 6A)
3. High common mode Impedance (max. 1400 ohm, at 100MHz)
4. Operating Temperature Range  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$

### Applications

#### Noise suppression for power line

1. Power line equipment
  - DC-DC converters
  - Battery chargers
2. Portable equipment
  - PDAs (Personal Digital Assistants)
  - Note PCs
  - Printers

## Applications

Other Usage For general

## Packaging Information

| Packaging | Specifications      | Minimum Order Quantity |
|-----------|---------------------|------------------------|
| K         | 330mm Embossed Tape | 2500                   |
| L         | 180mm Embossed Tape | 700                    |
| B         | Bulk(Bag)           | 100                    |

### 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.  
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## Specifications

|                                             |         |                                                                |                |
|---------------------------------------------|---------|----------------------------------------------------------------|----------------|
| Shape                                       | SMD     | DC Resistance                                                  | 0.034Ω max.    |
| Size Code (in mm)                           | 5050    | Insulation Resistance(min.)                                    | 10MΩ           |
| Size Code (in inch)                         | 2020    | Operating Temperature Range                                    | -40°C to 105°C |
| Length                                      | 5.0mm   | Mass(typ.)                                                     | 0.21g          |
| Length Tolerance                            | ±0.3mm  | Number of Circuit                                              | 1              |
| Width                                       | 5.0mm   | Operating Temperature Range(Self-temperature rise is included) | No             |
| Width Tolerance                             | ±0.3mm  |                                                                |                |
| Thickness                                   | 2.35mm  |                                                                |                |
| Thickness Tolerance                         | ±0.15mm |                                                                |                |
| Common Mode Impedance (at 100MHz)           | 1000Ω   |                                                                |                |
| Common Mode Impedance (at 100MHz) Tolerance | (Typ.)  |                                                                |                |
| Common Mode Impedance (at 10MHz)            | 60Ω     |                                                                |                |
| Common Mode Impedance (at 10MHz) Tolerance  | min.    |                                                                |                |
| Rated Current                               | 2.5A    |                                                                |                |
| Rated Voltage                               | 50Vdc   |                                                                |                |
| Withstanding Voltage                        | 125Vdc  |                                                                |                |
| DC Resistance(max.)                         | 0.034Ω  |                                                                |                |

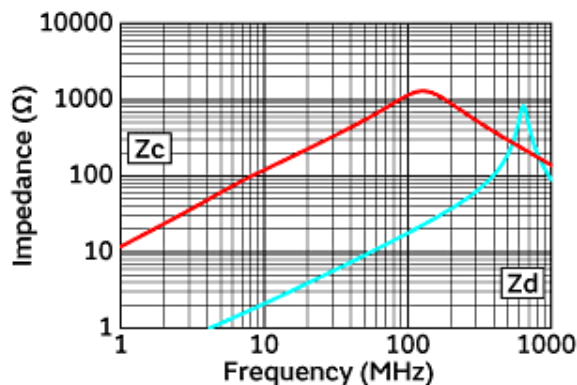
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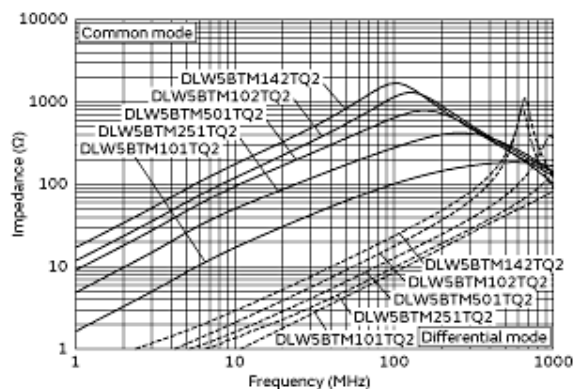
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## Product Data



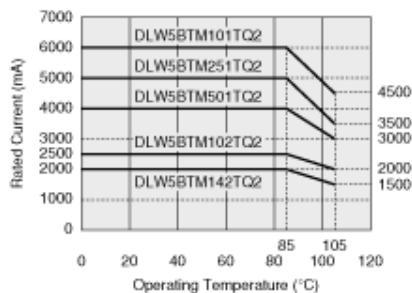
Impedance-Frequency Characteristics



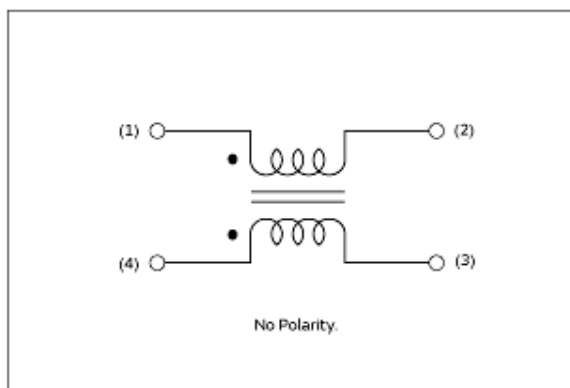
Impedance-Frequency Characteristics  
(Main Items)

In operating temperature exceeding +85°C, derating of current is necessary for DLW5BT series (105 degree C available type). 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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