

# DLW5BTM251SQ2#

“#” indicates a package specification code.

In Production

RoHS

REACH

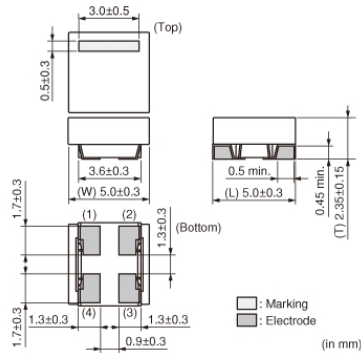
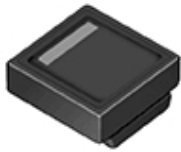
## < List of part numbers with package codes >

DLW5BTM251SQ2B

DLW5BTM251SQ2K

DLW5BTM251SQ2L

## Appearance & Shape



## Packaging Information

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

## Applications

|             |             |
|-------------|-------------|
| Other Usage | For general |
|-------------|-------------|

### Attention

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Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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## Features

Low profile (h=2.5mm) chip common mode choke coil.  
Suitable for noise suppression at DC power lines.

### Features

1. Low profile (h=2.5mm)
2. Small size (5.0x5.0mm) and high rated current (1.5 to 6A)
3. High common mode Impedance (max. 1400 ohm, at 100MHz)

### 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

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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                               | 5A                                                                  |
| Derating of Rated Current                   | Yes (Over 60°C)<br>*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 85°C                                                       |
| Mass(typ.)                                  | 0.21g                                                               |

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

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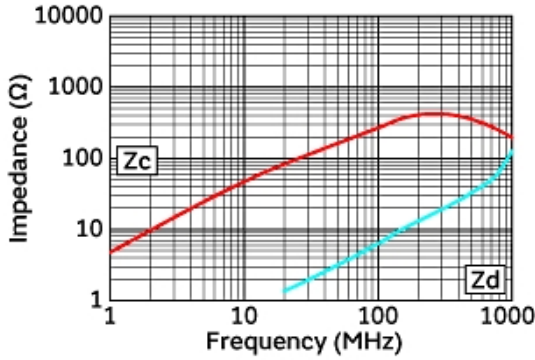
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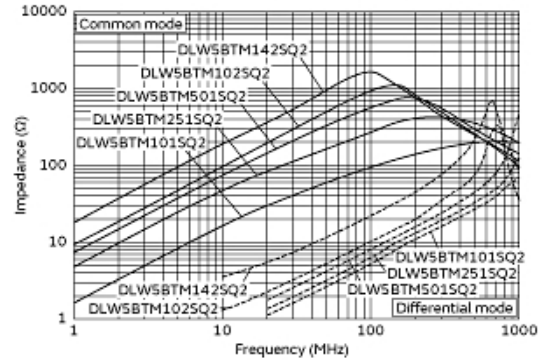
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## Product Data



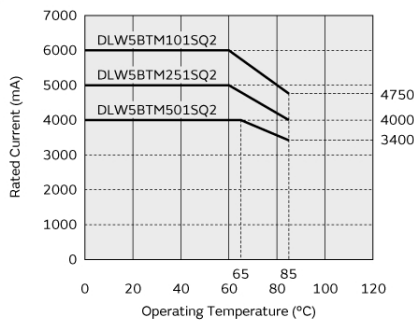
Impedance-Frequency Characteristics



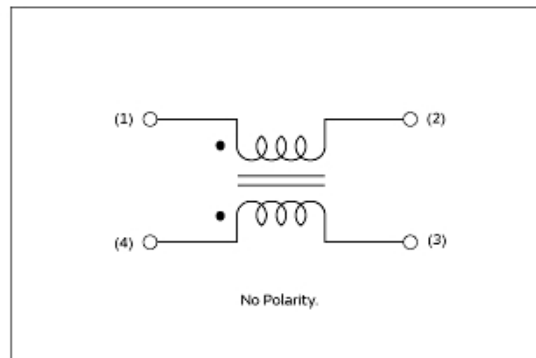
Impedance-Frequency Characteristics  
(Main Items)

In operating temperature exceeding +60°C, derating of current is necessary for the following part name of DLW5BT 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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