

# DLW5BSM801TQ2#

“#” indicates a package specification code.

In Production

RoHS

REACH

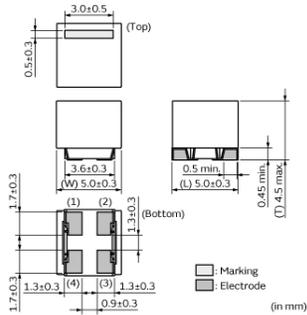
< List of part numbers with package codes >

DLW5BSM801TQ2B

DLW5BSM801TQ2K

DLW5BSM801TQ2L

## Appearance & Shape



## Packaging Information

| Packaging | Specifications      | Standard Packing Quantity |
|-----------|---------------------|---------------------------|
| B         | Bulk(Bag)           | 100                       |
| K         | 330mm Embossed Tape | 1500                      |
| L         | 180mm Embossed Tape | 400                       |

## Features

### Features

1. Small size (5.0x5.0mm) and high rated current (1 to 2A)
2. High common mode Impedance (max 2800ohm, at 10MHz.)
3. Operating Temperature Range -40°C to +105°C

### Applications

1. DC power lines in AC adapters of Portable equipment
2. DC power lines of DC-DC converters, battery chargers

## Applications

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

### Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, its 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                                   | 4.5mm   |
| Thickness Tolerance                         | max.  |
| Common Mode Impedance (at 100MHz)           | 800Ω  |
| Common Mode Impedance (at 100MHz) Tolerance | (Typ.)  |
| Common Mode Impedance (at 10MHz)            | 550Ω  |
| Common Mode Impedance (at 10MHz) Tolerance  | ±40%  |
| Rated Current                               | 2A  |
| Derating of Rated Current                   | Yes (Over 65°C)<br>*For details, please check the derating diagram. |
| Rated Voltage                               | 50Vdc   |
| Withstanding Voltage                        | 125Vdc  |
| DC Resistance(max.)                         | 0.056Ω  |
| DC Resistance                               | 0.056Ω max.   |
| Insulation Resistance(min.)                 | 10MΩ  |
| Operating Temperature Range                 | -40°C to 105°C  |
| Mass(typ.)                                  | 0.3g  |

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

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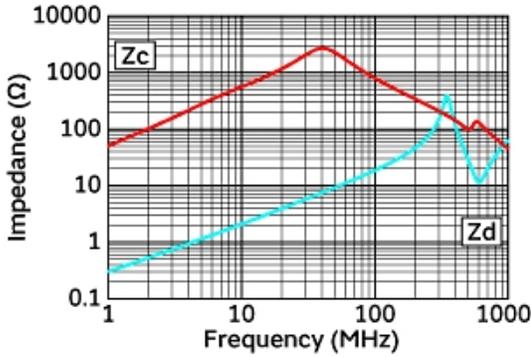
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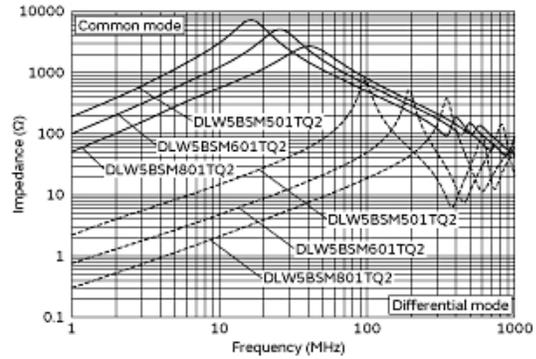
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## Product Data



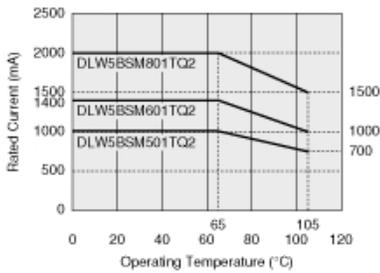
Impedance-Frequency Characteristics



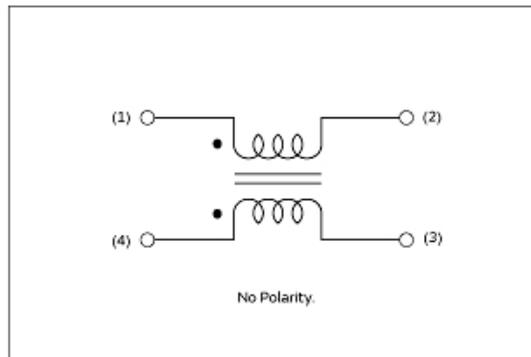
Impedance-Frequency Characteristics (Main Items)

In operating temperature exceeding +65°C, derating of current is necessary for DLW5BS\_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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