

# DLW5BSM191SQ2#

“#” at the end indicates the package specification code.

In Production

RoHS

REACH

## < List of part numbers with package codes >

DLW5BSM191SQ2B

DLW5BSM191SQ2K

DLW5BSM191SQ2L

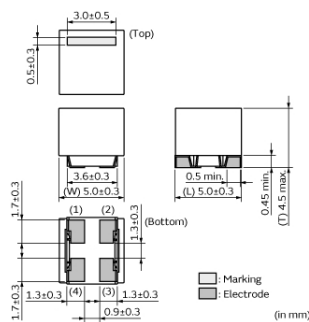
## Applications

|                          |   |
|--------------------------|---|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."   |
| Specific Applications    | Consumer equipment, Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector, Industrial equipment except for transportation & facility & energy equipment<br>Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product. |
| Recommended Applications | Consumer equipment  |

## Packaging Information

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

## Appearance & Shape



### Attention

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2.This datasheet has only typical specifications because there is no space for detailed specifications.

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## Features

DLW5AH/5BS series is a high performance wound type chip common mode choke coil.

### Features

1. High impedance (max. of 4000ohm at 100MHz: DLW5AH) enables great noise suppression.
2. Large rated current (max. of 5A) is suitable for power line use.
3. DLW5AH/BS series does not damage high speed signal due to high coupling common mode choke coil structure.
4. Automatic mounting can be applied.

### Applications

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

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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)           | 190Ω  |
| Common Mode Impedance (at 100MHz) Tolerance | (Typ.)  |
| Common Mode Impedance (at 10MHz)            | 19Ω   |
| Common Mode Impedance (at 10MHz) Tolerance  | min.  |
| Rated Current                               | 5A  |
| Derating of Rated Current                   | Yes (Over 75°C)<br>*For details, please check the derating diagram. |
| Rated Voltage                               | 50Vdc   |
| Withstanding Voltage                        | 125Vdc  |
| DC Resistance(max.)                         | 0.02Ω   |
| DC Resistance                               | 0.02Ω max.  |
| Insulation Resistance(min.)                 | 10MΩ  |
| Operating Temperature Range                 | -40°C to 85°C   |
| Mass(typ.)                                  | 0.3g  |

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

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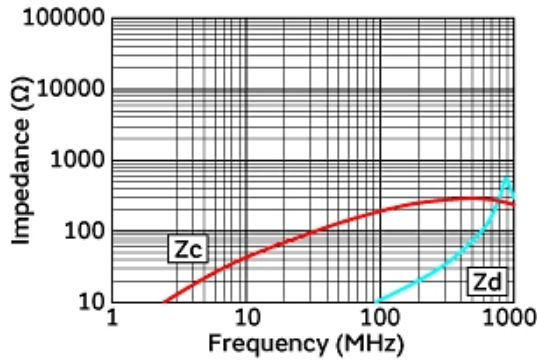
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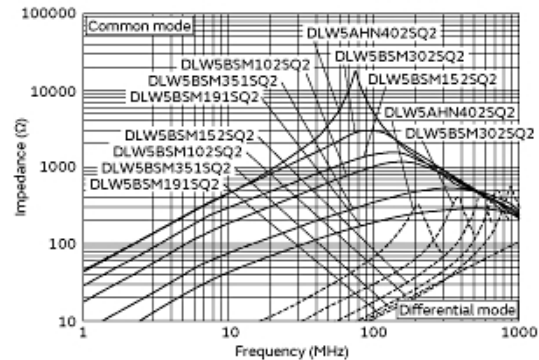
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## Product Data

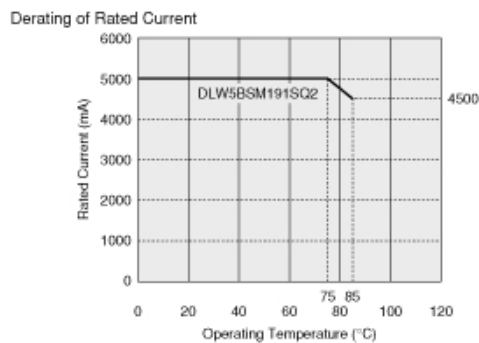


Impedance-Frequency Characteristics



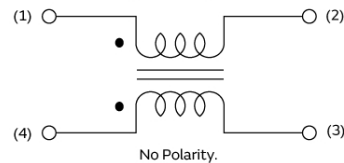
Impedance-Frequency Characteristics  
(Main Items)

In operating temperature exceeding +75°C, derating of current is necessary for DLW5BSM191SQ2. Please apply the derating curve shown in chart according to the operating temperature.

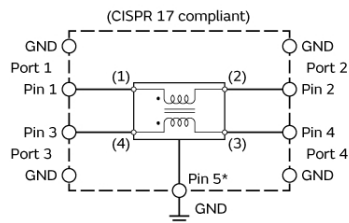


Derating of Rated Current

### Equivalent Circuit (Note 1)



Note1: The Port/Pin No. of the Simulation Model provided by our company is as follows.



S-parameter: Port □  
SPICE model: Pin □ (Pin5\* connect to GND)

Equivalent Circuit

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