

# DLW43SH510XK2#

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

For CAN

In Production

AEC-Q200

RoHS

REACH

## < List of part numbers with package codes >

DLW43SH510XK2B

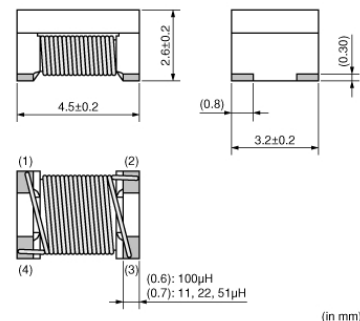
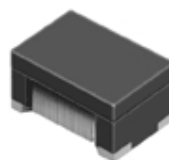
DLW43SH510XK2K

DLW43SH510XK2L

## Applications

|                          |  |
|--------------------------|--|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."  |
| Specific Applications    | Automotive powertrain/safety equipment, Automotive infotainment/comfort equipment, Consumer equipment, Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector, Industrial 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 | Automotive powertrain/safety equipment, CAN [Controller Area Network], FlexRay   |

## Appearance & Shape



## Packaging Information

| Packaging | Specifications      | Standard Packing Quantity |
|-----------|---------------------|---------------------------|
| B         | Bulk(Bag)           | 100                       |
| K         | 330mm Embossed Tape | 2500                      |
| L         | 180mm Embossed Tape | 500                       |

### 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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## Features

1. Small size: L4.5xW3.2xT2.6mm (EIA code: 1812)  
Tolerance: 0.2mm
2. Common mode inductance items of 11,22,51,100microH,  
and they can be used for each applications.

### Applications

For Automotive.

Common mode noise suppression of automotive LAN for Flex Ray,  
CAN.

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## Specifications

|  |                         |
|--|-------------------------|
| Shape  | SMD                     |
| Size Code (in mm)  | 4532                    |
| Size Code (in inch)  | 1812                    |
| Length   | 4.5mm                   |
| Length Tolerance   | ±0.2mm                  |
| Width  | 3.2mm                   |
| Width Tolerance  | ±0.2mm                  |
| Thickness  | 2.6mm                   |
| Thickness Tolerance  | ±0.2mm                  |
| Rated Current  | 230mA                   |
| Derating of Rated Current                                      | No                      |
| Rated Voltage  | 50Vdc                   |
| Withstanding Voltage   | 125Vdc                  |
| DC Resistance(max.)  | 1Ω                      |
| DC Resistance  | 1.0Ω max.               |
| Insulation Resistance(min.)                                    | 10MΩ                    |
| Operating Temperature Range                                    | -40°C to 125°C          |
| Mass(typ.)   | 0.17g                   |
| Number of Circuit  | 1                       |
| Common Mode Inductance   | 51μH-30%/+50% (at 1MHz) |
| Operating Temperature Range(Self-temperature rise is included) | No                      |
| Brand  | Murata                  |

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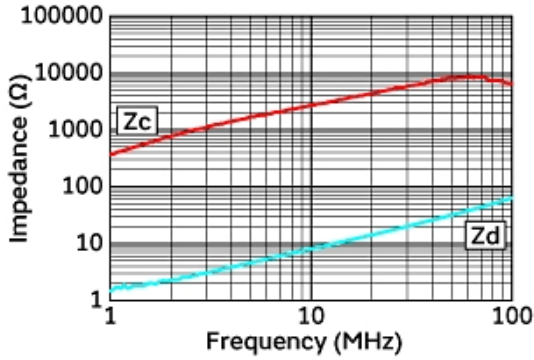
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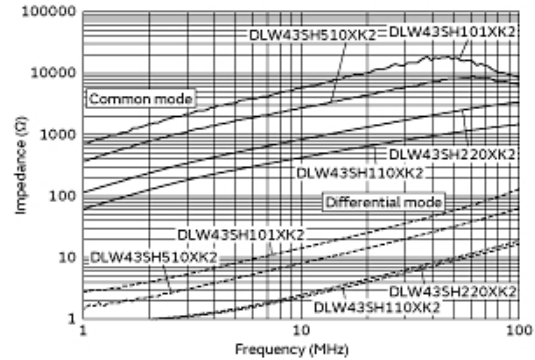
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## Product Data



Impedance-Frequency Characteristics



Impedance-Frequency Characteristics  
(Main Items)

### 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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