

# DLW31SH222SQ2#

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

In Production

AEC-Q200

RoHS

REACH

< List of part numbers with package codes >  
DLW31SH222SQ2B                      DLW31SH222SQ2L

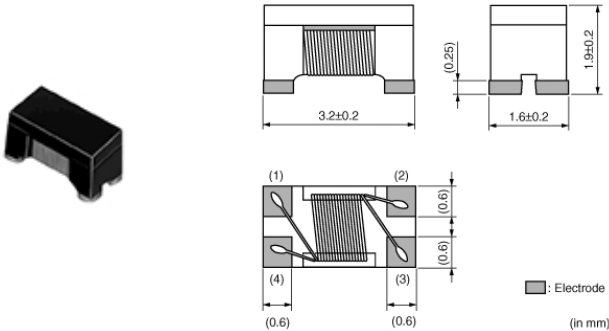
## Applications

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 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

## Packaging Information

Packaging	Specifications	Standard Packing Quantity
B	Bulk(Bag)	500
L	180mm Embossed Tape	2000

## Appearance & Shape



### 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

DLW31S series is a high performance wound type chip common mode choke coil.

### Features

1. DLW31S is the small size (3.2x1.6x1.9mm).
2. Suitable for noise suppression at car area networks like CAN (Controller Area Network) bus.
3. DLW31S has high common mode impedance so it is suitable for noise suppression through wide frequency range.
4. Wide operating temperature range (-40 to +125 degrees C)

### Applications

Noise suppression at car area networks like CAN bus or car navigation system.

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## Specifications

Shape	SMD
Size Code (in mm)	3216
Size Code (in inch)	1206
Length	3.2mm
Length Tolerance	±0.2mm
Width	1.6mm
Width Tolerance	±0.2mm
Thickness	1.9mm
Thickness Tolerance	±0.2mm
Common Mode Impedance (at 100MHz)	2200Ω
Common Mode Impedance (at 100MHz) Tolerance	±25%
Rated Current	80mA
Derating of Rated Current	No
Rated Voltage	32Vdc
Withstanding Voltage	80Vdc
DC Resistance(max.)	1.92Ω
DC Resistance	1.6Ω±20%
Insulation Resistance(min.)	10MΩ
Operating Temperature Range	-40°C to 125°C
Mass(typ.)	0.039g
Number of Circuit	1
Operating Temperature Range(Self-temperature rise is included)	No
Brand	Murata

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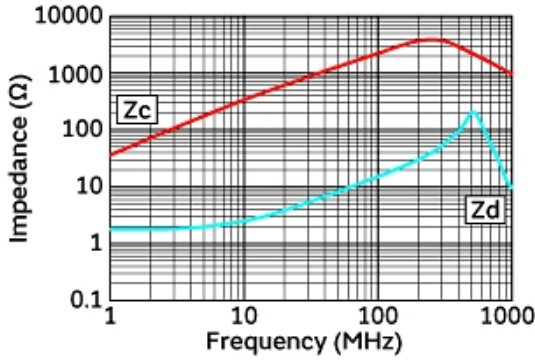
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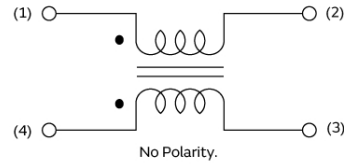
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## Product Data

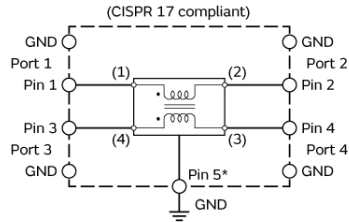


Impedance-Frequency Characteristics

### Equivalent Circuit (Note 1)



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



Equivalent Circuit

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