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Please download the latest datasheet of DLW31SH222SQ2# from the official website of Murata

http://www.murata.com/en-us/products/productdetail?partno=DLW31SH222SQ2%23

"#"at the end indicates the package specification code.









< List of part numbers with package codes > DLW31SH222SQ2B DLW31SH222SQ2L



Applications

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



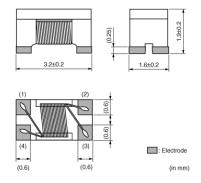
Packaging Information

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



Appearance & Shape





1 of 4

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 $2. This \ data{sheet has only typical specifications because there is no \ space for \ detailed \ specifications.}$

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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.) | 10ΜΩ |
| 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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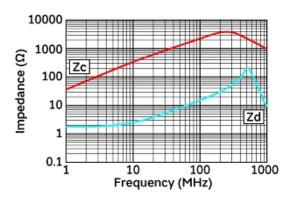
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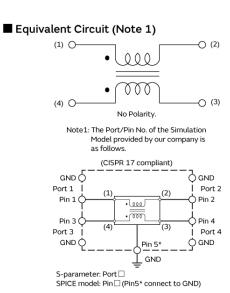
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Impedance-Frequency Characteristics



Equivalent Circuit

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