

DLM0QSB120HY2#

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

In Production

RoHS

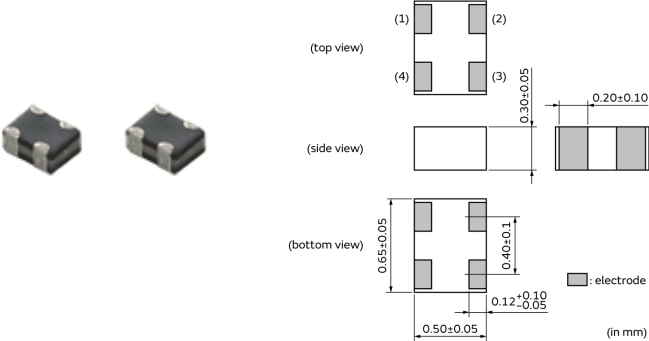
REACH

< List of part numbers with package codes >
DLM0QSB120HY2B DLM0QSB120HY2D

Applications

| | |
|--------------------------|---|
| Unsuitable Applications | Please be sure to read and comply with these "Precautions for use." |
| Specific Applications | Consumer Electronics - Differential Transmission, Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector, Industrial equipment except for transportation & facility & energy 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 | Consumer equipment, USB2.0, USB3.1 Gen1, USB3.1 Gen2, MIPI D-PHY Ver1.1, MIPI D-PHY Ver1.2, MIPI M-PHY Ver3.1, HDMI 1.4b, HDMI 2.0, Displayport 1.4, HDMI 2.1 |

Appearance & Shape



Packaging Information

| Packaging | Specifications | Standard Packing Quantity |
|-----------|------------------|---------------------------|
| B | Bulk(Bag) | 500 |
| D | 180mm Paper Tape | 15000 |

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 and tight dimensional tolerance

Size: 0.65x0.50x0.30mm

Tolerance: +/-0.05mm

2. Suitable common mode impedance of 35 or 12ohm(at 100MHz)
for high speed signal lines.

3. Prevents signal damaging in high speed differential lines.

4. Designed to match line impedance.

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Specifications

| | |
|-------|--------|
| Brand | Murata |
|-------|--------|

| | |
|--|---------------|
| Shape | SMD |
| Size Code (in mm) | 0605 |
| Size Code (in inch) | 025020 |
| Length | 0.65mm |
| Length Tolerance | ±0.05mm |
| Width | 0.5mm |
| Width Tolerance | ±0.05mm |
| Thickness | 0.3mm |
| Thickness Tolerance | ±0.05mm |
| Common Mode Impedance (at 100MHz) | 12Ω |
| Common Mode Impedance (at 100MHz) Tolerance | ±5Ω |
| Rated Current | 150mA |
| Derating of Rated Current | No |
| Rated Voltage | 5Vdc |
| Withstanding Voltage | 12.5Vdc |
| DC Resistance(max.) | 2Ω |
| DC Resistance | 1.6Ω±25% |
| Insulation Resistance(min.) | 10MΩ |
| Cut-off Frequency | 8.0GHz (Typ.) |
| Operating Temperature Range | -40°C to 85°C |
| Mass(typ.) | 0.3mg |
| Number of Circuit | 1 |
| Operating Temperature Range(Self-temperature rise is included) | No |

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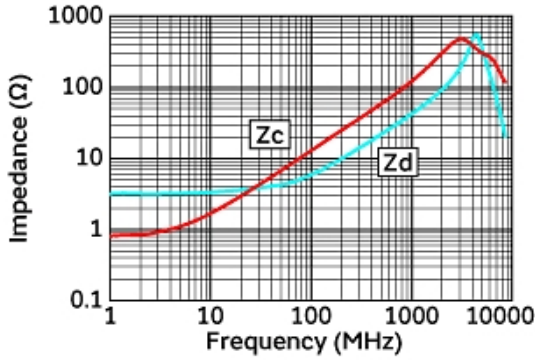
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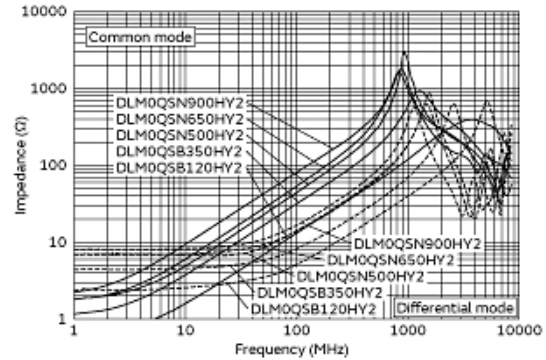
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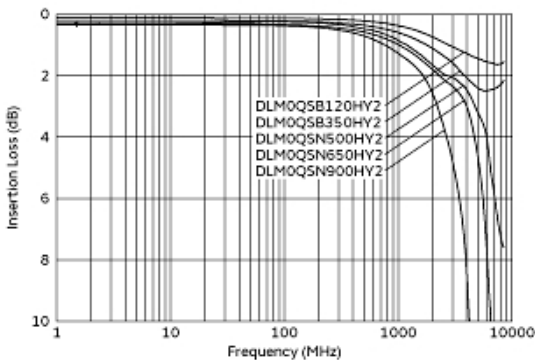
Product Data



Impedance-Frequency Characteristics



Impedance-Frequency Characteristics
(Main Items)



Differential Mode Transmission Characteristics
(Typical Value)

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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