

# DLM0NSM900HY2#

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

In Production

RoHS

REACH

## < List of part numbers with package codes >

DLM0NSM900HY2B

DLM0NSM900HY2D

## Applications

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

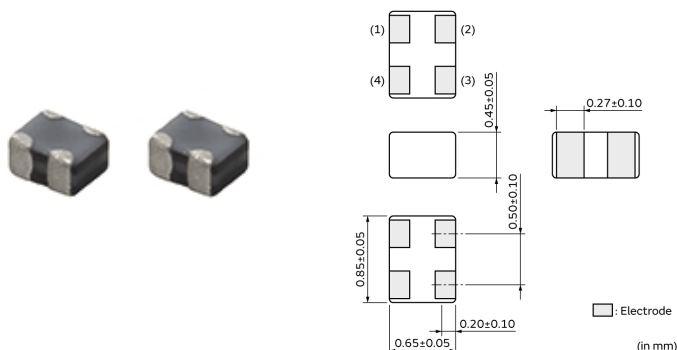
## Packaging Information

| Packaging | Specifications   | Standard Packing Quantity |
|-----------|------------------|---------------------------|
| B         | Bulk(Bag)        | 500                       |
| D         | 180mm Paper Tape | 10000                     |

## Features

1. Small size and tight dimensional tolerance  
Size: 0.85x0.65x0.45mm  
Tolerance: ±0.05mm
2. High common mode impedance up to 90ohm (at 100MHz) is available.
3. DLM0NSM series enables noise suppression for differential signal line without distortion in high-speed signal transmission due to its line impedance matching.
4. High Cut-off Frequency.

## Appearance & Shape



### Attention

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## Specifications

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

|                                                                |               |
|----------------------------------------------------------------|---------------|
| Shape                                                          | SMD           |
| Size Code (in mm)                                              | 0806          |
| Size Code (in inch)                                            | 03025         |
| Length                                                         | 0.85mm        |
| Length Tolerance                                               | ±0.05mm       |
| Width                                                          | 0.65mm        |
| Width Tolerance                                                | ±0.05mm       |
| Thickness                                                      | 0.45mm        |
| Thickness Tolerance                                            | ±0.05mm       |
| Common Mode Impedance (at 100MHz)                              | 90Ω           |
| Common Mode Impedance (at 100MHz) Tolerance                    | ±25%          |
| Rated Current                                                  | 100mA         |
| Derating of Rated Current                                      | No            |
| Rated Voltage                                                  | 5Vdc          |
| Withstanding Voltage                                           | 12.5Vdc       |
| DC Resistance(max.)                                            | 4.75Ω         |
| DC Resistance                                                  | 3.8Ω±25%      |
| Insulation Resistance(min.)                                    | 10MΩ          |
| Cut-off Frequency                                              | 5.0GHz (Typ.) |
| Operating Temperature Range                                    | -40°C to 85°C |
| Mass(typ.)                                                     | 0.9mg         |
| Number of Circuit                                              | 1             |
| Operating Temperature Range(Self-temperature rise is included) | No            |

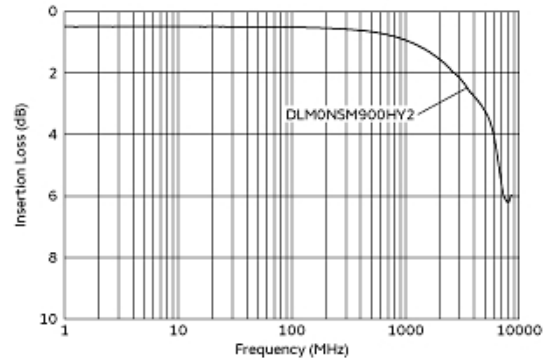
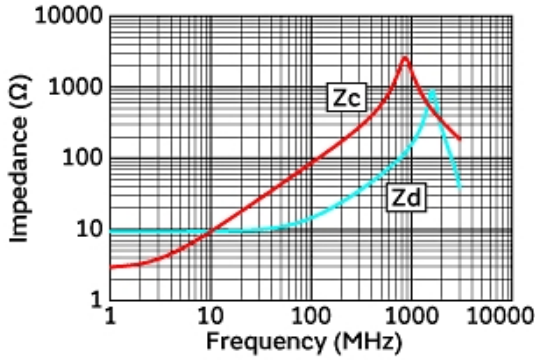
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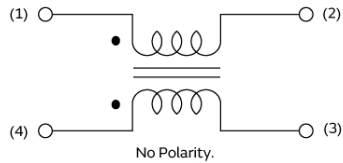
## Product Data



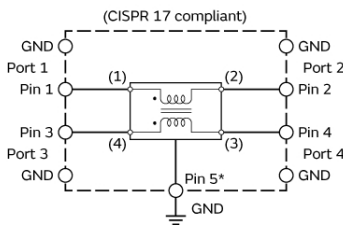
### Impedance-Frequency Characteristics

### 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  $\square$   
SPICE model: Pin  $\square$  (Pin5\* connect to GND)

### Equivalent Circuit

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