

# DLP0NSA070HL2#

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



< List of part numbers with package codes >  
DLP0NSA070HL2B      DLP0NSA070HL2L

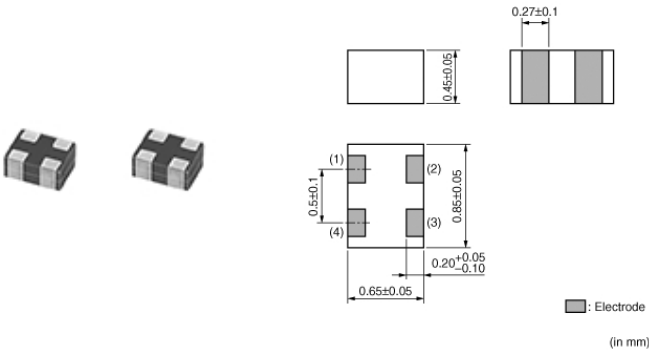
## Applications

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."                                                                                                                                                                                                                                                                                                                                                                                   |
| Specific Applications    | Consumer equipment, Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector, Industrial equipment except for transportation & facility & energy 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 | Consumer equipment                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Packaging Information

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

## Appearance & Shape



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- 2.This datasheet has only typical specifications because there is no space for detailed specifications.  
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## Features

### (DLP0NS Series)

1. Small size and tight dimensional tolerance  
Size: 0.85x0.65x0.45mm  
Tolerance: ±0.05mm
2. DLP0NS series enables noise suppression for differential signal line without distortion in high-speed signal transmission due to its line impedance matching.
3. High Cut-off Frequency. (DLP0NSA150HL2: 8GHz typ.)

### ■Application

Common mode noise suppression of high speed differential signal lines for USB 2.0, IEEE1394, LVDS etc.

1. Note PCs
2. Cellular phones
3. Digital Still Cameras, Digital Video Cameras
4. Designed to match signal line characteristic impedance  
※DLP0NSC280HL2/DLP0NSC900HL2 is designed to meet mipi D-phy.  
※DLP0NSA150HL2 is designed to meet Display Port.  
※DLP0NSA070HL2 is designed to meet SI requirement of SATA

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## Specifications

|                                                                |               |
|----------------------------------------------------------------|---------------|
| 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)                              | 7Ω            |
| Common Mode Impedance (at 100MHz) Tolerance                    | ±2Ω           |
| Rated Current                                                  | 100mA         |
| Derating of Rated Current                                      | No            |
| Rated Voltage                                                  | 5Vdc          |
| Withstanding Voltage                                           | 12.5Vdc       |
| DC Resistance(max.)                                            | 0.75Ω         |
| DC Resistance                                                  | 0.6Ω±25%      |
| Insulation Resistance(min.)                                    | 100MΩ         |
| Operating Temperature Range                                    | -40°C to 85°C |
| Mass(typ.)                                                     | 0.001g        |
| Number of Circuit                                              | 1             |
| Operating Temperature Range(Self-temperature rise is included) | No            |
| Brand                                                          | Murata        |

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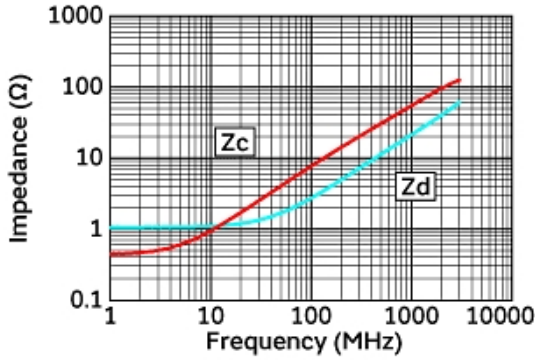
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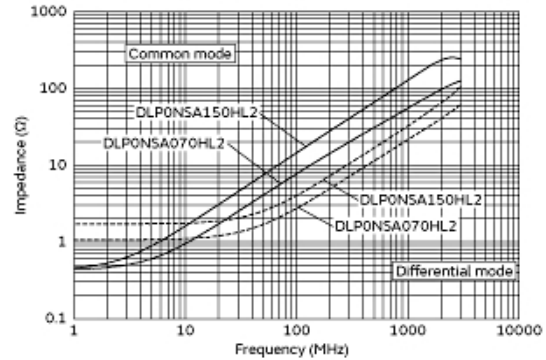
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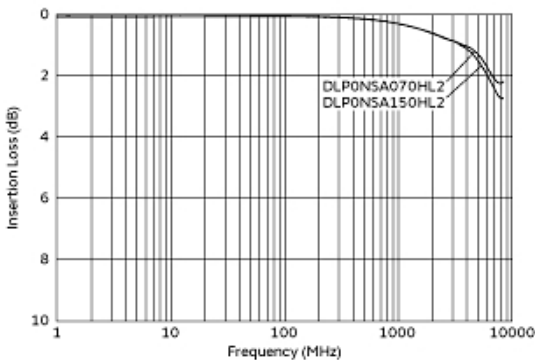
## Product Data



Impedance-Frequency Characteristics

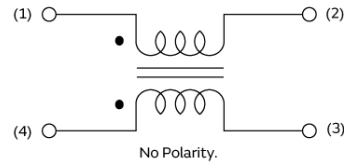


Impedance-Frequency Characteristics  
(Main Items)

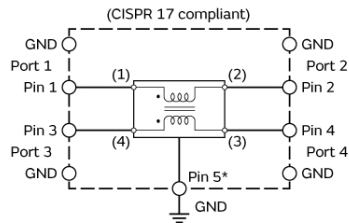


Differential Mode Transmission Characteristics  
(Typical Value)

### 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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