

# DLW21SN121HQ2#

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



< List of part numbers with package codes >  
DLW21SN121HQ2B                      DLW21SN121HQ2L

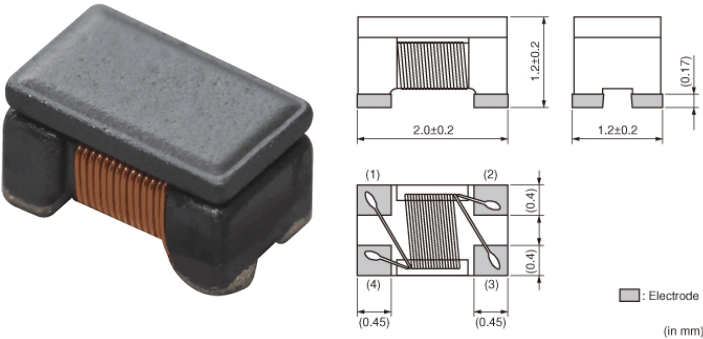
## Applications

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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, HDMI 1.4b, HDMI 2.0                                                                                                                                                                                                                                                                                                                                                                                                               |

## Packaging Information

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

## Appearance & Shape



**Attention**  
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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: 2.0x1.2x1.2mm
2. Common mode impedance items of 67, 90 and 120 ohm, and they can be used for various differential signal lines, DLW21SN\_HQ/DLW21SZ\_HQ/DLW21SR\_HQ series matches line impedance of 100 ohm line.
3. This series can suppress noise for the high-speed differential signal lines which are used in digital AV interfaces, such as HDMI and DVI, without damage to the signal wave.
4. DLW21SR670HQ2 is designed to correct line impedance when ESD protection device is also used.

### Applications

Common mode noise suppression of high speed differential signal lines for HDMI, DVI, USB2.0, IEEE1394, LVDS.

1. DVD Recorders
2. LCD TVs, LCD monitors
3. PCs

DLW21SR\_HQ Series is suitable for receiver side of HDMI interface line.

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## Specifications

|                                                                |               |
|----------------------------------------------------------------|---------------|
| Shape                                                          | SMD           |
| Size Code (in mm)                                              | 2012          |
| Size Code (in inch)                                            | 0805          |
| Length                                                         | 2.0mm         |
| Length Tolerance                                               | ±0.2mm        |
| Width                                                          | 1.2mm         |
| Width Tolerance                                                | ±0.2mm        |
| Thickness                                                      | 1.2mm         |
| Thickness Tolerance                                            | ±0.2mm        |
| Common Mode Impedance (at 100MHz)                              | 120Ω          |
| Common Mode Impedance (at 100MHz) Tolerance                    | ±25%          |
| Rated Current                                                  | 280mA         |
| Derating of Rated Current                                      | No            |
| Rated Voltage                                                  | 20Vdc         |
| Withstanding Voltage                                           | 50Vdc         |
| DC Resistance(max.)                                            | 0.41Ω         |
| DC Resistance                                                  | 0.41Ω max.    |
| Insulation Resistance(min.)                                    | 10MΩ          |
| Operating Temperature Range                                    | -40°C to 85°C |
| Mass(typ.)                                                     | 0.011g        |
| Number of Circuit                                              | 1             |
| Operating Temperature Range(Self-temperature rise is included) | No            |
| Brand                                                          | Murata        |

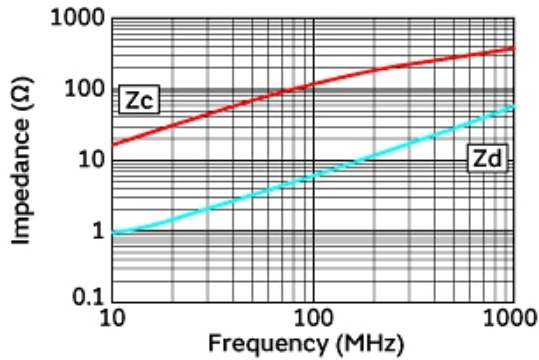
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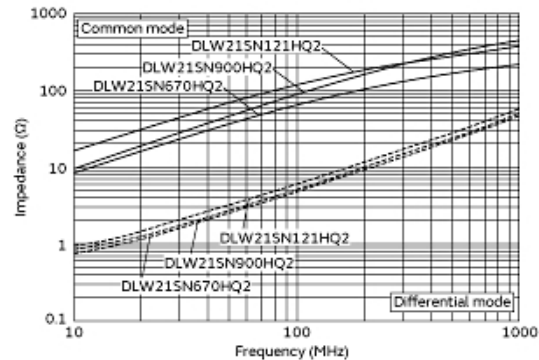
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## Product Data

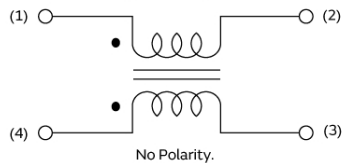


Impedance-Frequency Characteristics

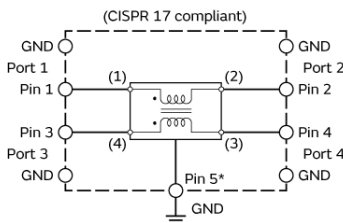


Impedance-Frequency Characteristics  
(Main Items)

### 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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