

# DLW5ATN331MQ2#

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



## < List of part numbers with package codes >

DLW5ATN331MQ2B      DLW5ATN331MQ2K      DLW5ATN331MQ2L

## 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                                                                                                                                                                                                                                                                                                                                                                                                                                    |

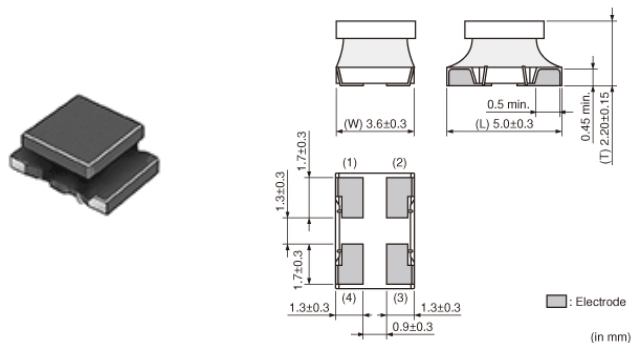
## Packaging Information

| Packaging | Specifications      | Standard Packing Quantity |
|-----------|---------------------|---------------------------|
| B         | Bulk(Bag)           | 100                       |
| K         | 330mm Embossed Tape | 2500                      |
| L         | 180mm Embossed Tape | 700                       |

## Features

1. Low profile(h=2.35mm max.)
2. Small size(5.0x3.6mm)
3. Large Current Available (2A to 6A)
4. Operating Temperature Range: -40°C to +105°C
5. Reflow and Flow soldering Available

## Appearance & Shape



### Application

Noise suppression for power line

1. Power line equipment  
DC/DC converter  
battery charger
2. Portable equipment  
PDA(Personal Digital Assistance)  
note PC  
printer  
DVC

### Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, its 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.

# DLW5ATN331MQ2#

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



## Specifications

|                                             |                                                                     |
|---------------------------------------------|---------------------------------------------------------------------|
| Shape                                       | SMD                                                                 |
| Size Code (in mm)                           | 5036                                                                |
| Size Code (in inch)                         | 2014                                                                |
| Length                                      | 5.0mm                                                               |
| Length Tolerance                            | ±0.3mm                                                              |
| Width                                       | 3.6mm                                                               |
| Width Tolerance                             | ±0.3mm                                                              |
| Thickness                                   | 2.2mm                                                               |
| Thickness Tolerance                         | ±0.15mm                                                             |
| Common Mode Impedance (at 100MHz)           | 330Ω                                                                |
| Common Mode Impedance (at 100MHz) Tolerance | (Typ.)                                                              |
| Common Mode Impedance (at 10MHz)            | 20Ω                                                                 |
| Common Mode Impedance (at 10MHz) Tolerance  | min.                                                                |
| Rated Current                               | 4A                                                                  |
| Derating of Rated Current                   | Yes (Over 85°C)<br>*For details, please check the derating diagram. |
| Rated Voltage                               | 100Vdc                                                              |
| Withstanding Voltage                        | 250Vdc                                                              |
| DC Resistance(max.)                         | 0.027Ω                                                              |
| DC Resistance                               | 0.027Ω max.                                                         |
| Insulation Resistance(min.)                 | 10MΩ                                                                |
| Operating Temperature Range                 | -40°C to 105°C                                                      |
| Mass(typ.)                                  | 0.14g                                                               |

|                                                                |        |
|----------------------------------------------------------------|--------|
| Number of Circuit                                              | 1      |
| Operating Temperature Range(Self-temperature rise is included) | No     |
| Brand                                                          | Murata |

### Attention

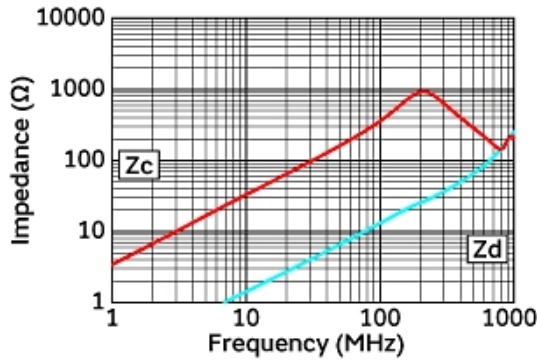
- 1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
- 2.This datasheet 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.

# DLW5ATN331MQ2#

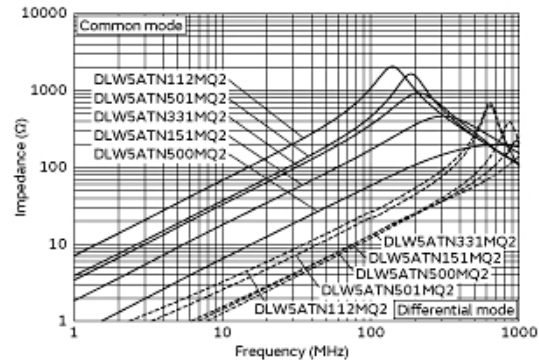
Note: If you have not downloaded this document from our official website, please note that the information provided may not be the most current.  
Please download the latest datasheet of DLW5ATN331MQ2# from the official website of Murata  
<http://www.murata.com/en-gb/products/productdetail?partno=DLW5ATN331MQ2%23>

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

## Product Data



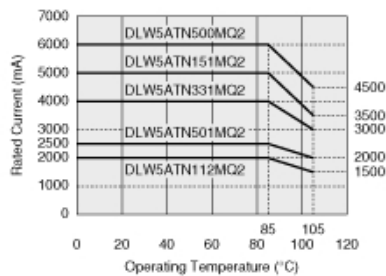
Impedance-Frequency Characteristics



Impedance-Frequency Characteristics (Main Items)

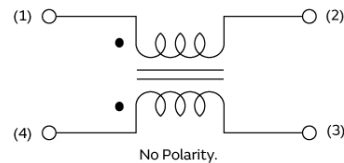
In operating temperature exceeding +85°C, derating of current is necessary for DLW5AT series (105 degree C available type). Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current

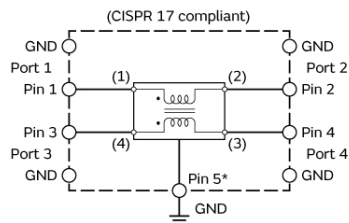


Derating of Rated Current

### 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

### 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.