

# DLW5ATN151MQ2#

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

In Production

RoHS

REACH

## < List of part numbers with package codes >

DLW5ATN151MQ2B

DLW5ATN151MQ2K

DLW5ATN151MQ2L

## 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                                                                                                                                                                                                                                                                                                                                                                                                                                    |

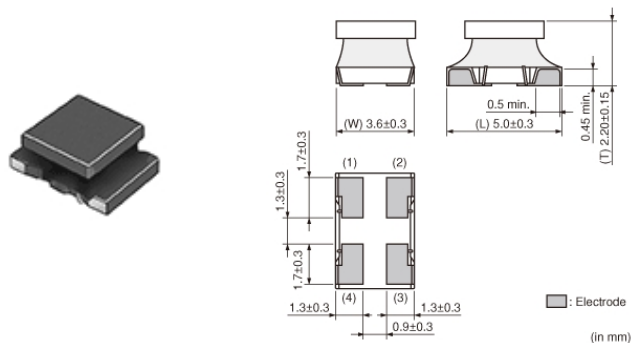
## Packaging Information

| 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

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## 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)           | 150Ω                                                                |
| Common Mode Impedance (at 100MHz) Tolerance | (Typ.)                                                              |
| Common Mode Impedance (at 10MHz)            | 11Ω                                                                 |
| Common Mode Impedance (at 10MHz) Tolerance  | min.                                                                |
| Rated Current                               | 5A                                                                  |
| 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.)                         | 0.02Ω                                                               |
| DC Resistance                               | 0.020Ω 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 |

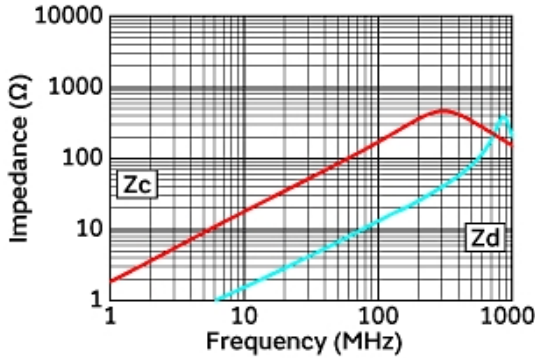
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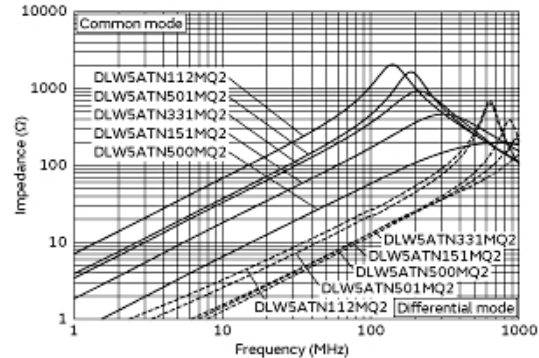
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## Product Data



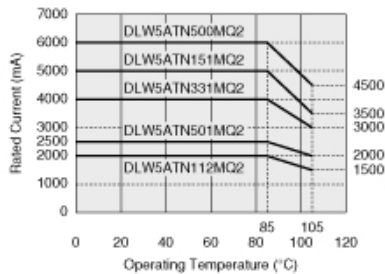
Impedance-Frequency Characteristics



Impedance-Frequency Characteristics  
(Main Items)

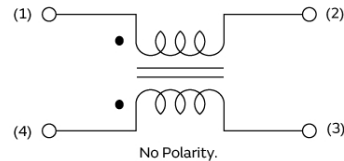
In operating temperature exceeding +85°C, derating of current is necessary for DLW5AT series (105 degree C available type). Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current

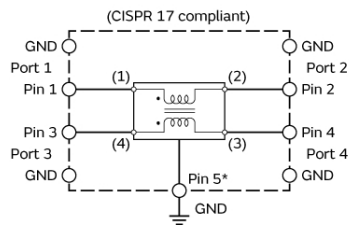


Derating of Rated Current

### 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

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