

# DLW5ATN272SQ2#

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Please download the latest datasheet of DLW5ATN272SQ2# from the official website of Murata

<http://www.murata.com/en/products/productdetail?partno=DLW5ATN272SQ2%23>

"#"at the end indicates the package specification code.

In Production

RoHS

REACH

## < List of part numbers with package codes >

DLW5ATN272SQ2B

DLW5ATN272SQ2K

DLW5ATN272SQ2L

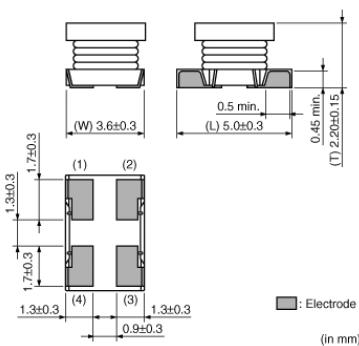
## Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	<p>Consumer equipment, 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	Consumer equipment

## Packaging Information

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

## Appearance & Shape



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## Features

### Features

1. Low profile(h=2.35mm max.)
2. Small size(5.0x3.6mm)
3. High rated current available(1Ato 5A)
4. High common mode Impedance  
(max 2700ohm,at 100MHz)

### 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

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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)	2700Ω
Common Mode Impedance (at 100MHz) Tolerance	(Typ.)
Common Mode Impedance (at 10MHz)	100Ω
Common Mode Impedance (at 10MHz) Tolerance	±25%
Rated Current	1A
Derating of Rated Current	Yes (Over 75°C) *For details, please check the derating diagram.
Rated Voltage	50Vdc
Withstanding Voltage	125Vdc
DC Resistance(max.)	0.12Ω
DC Resistance	0.12Ω max.
Insulation Resistance(min.)	10MΩ
Operating Temperature Range	-40°C to 85°C
Mass(typ.)	0.125g

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

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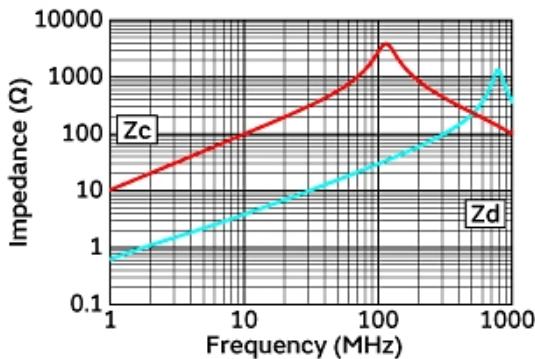
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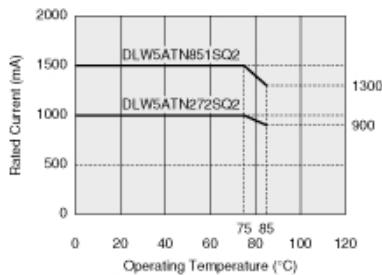
## Product Data



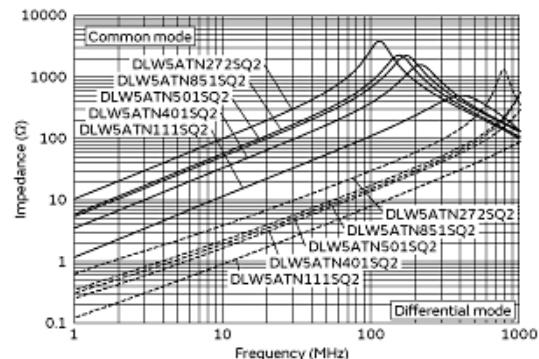
Impedance-Frequency Characteristics

In operating temperature exceeding +75°C, derating of current is necessary for DLW5AT series.  
Please apply the derating curve shown in chart according to the operating temperature.

### Derating of Rated Current

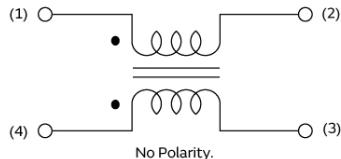


Derating of Rated Current

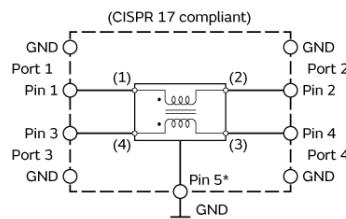


Impedance-Frequency Characteristics (Main Items)

### ■ Equivalent Circuit (Note 1)



Note1: The Port/Pin No. of the Simulation Model provided by our company is as follows.



S-parameter: Port □

SPICE model: Pin □ (Pin5\* connect to GND)

Equivalent Circuit

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