

# DLW5ATH500MQ2#

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



## < List of part numbers with package codes >

DLW5ATH500MQ2B

DLW5ATH500MQ2K

DLW5ATH500MQ2L

## Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	Automotive powertrain/safety equipment, Automotive infotainment/comfort equipment, Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector 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	Automotive powertrain/safety equipment

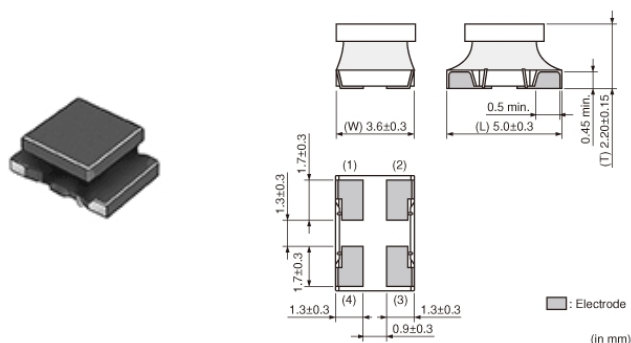
## Packaging Information

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 (1.5A to 4A)
4. Operating Temperature Range : -40°C to +125°C
5. Reflow and Flow soldering Available

## Appearance & Shape



### 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.

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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)	50Ω
Common Mode Impedance (at 100MHz) Tolerance	(Typ.)
Common Mode Impedance (at 10MHz)	4.6Ω
Common Mode Impedance (at 10MHz) Tolerance	min.
Rated Current	4A
Derating of Rated Current	Yes (Over 105°C) *For details, please check the derating diagram.
Rated Voltage	50Vdc
Withstanding Voltage	125Vdc
DC Resistance(max.)	0.013Ω
DC Resistance	0.013Ω max.
Insulation Resistance(min.)	10MΩ
Operating Temperature Range	-40°C to 125°C
Mass(typ.)	0.14g

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

### Attention

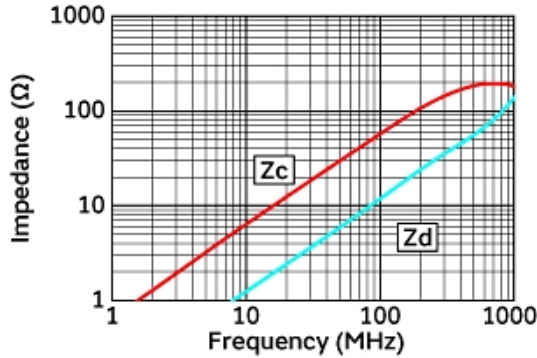
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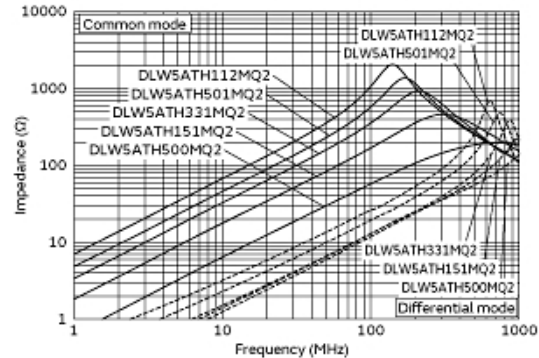
Note: If you have not downloaded this document from our official website, please note that the information provided may not be the most current.  
Please download the latest datasheet of DLW5ATH500MQ2# from the official website of Murata  
<http://www.murata.com/en-gb/products/productdetail?partno=DLW5ATH500MQ2%23>

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## Product Data



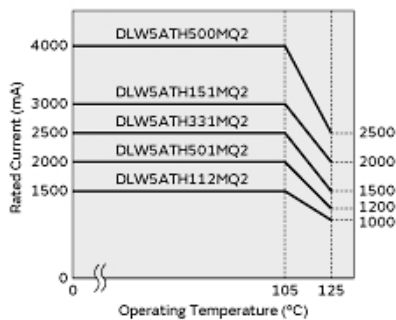
Impedance-Frequency Characteristics



Impedance-Frequency Characteristics  
(Main Items)

In operating temperature exceeding +105°C, derating of current is necessary for DLW5ATH\_MQ2 series.  
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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