

# DLW5ATH500MQ2L

“#” indicates a package specification code.



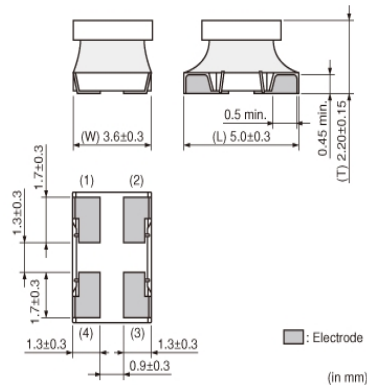
## < List of part numbers with package codes >

DLW5ATH500MQ2K

DLW5ATH500MQ2L

DLW5ATH500MQ2B

## Appearance & Shape



## Packaging Information

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

## 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

## Applications

|                  |                   |
|------------------|-------------------|
| Automotive Usage | Powertrain/Safety |
|------------------|-------------------|

### Attention

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2. This datasheet has only typical specifications because there is no space for detailed specifications.

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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)<br>*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 |

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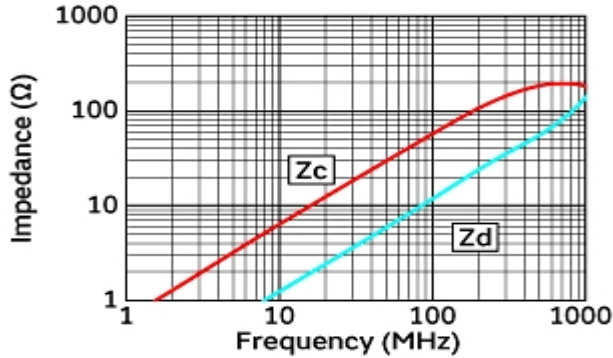
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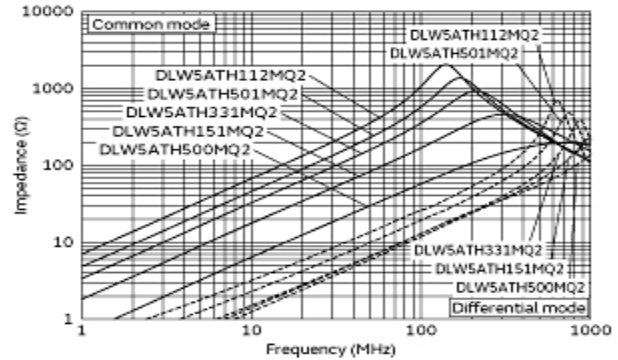
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## Product Data



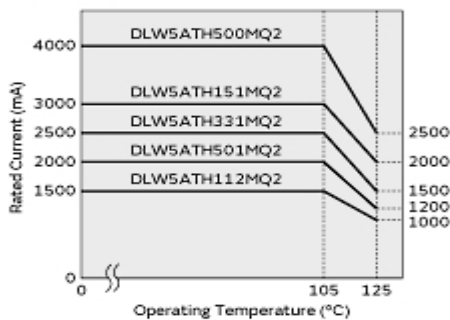
Impedance-Frequency Characteristics



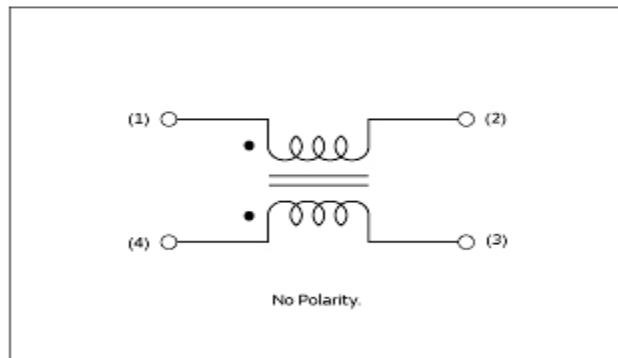
Impedance-Frequency Characteristics  
(Main Items)

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

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