

# DFE2MCPHR33MJLLQ

Capable of handling large currents, High withstand voltage type



## Applications

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

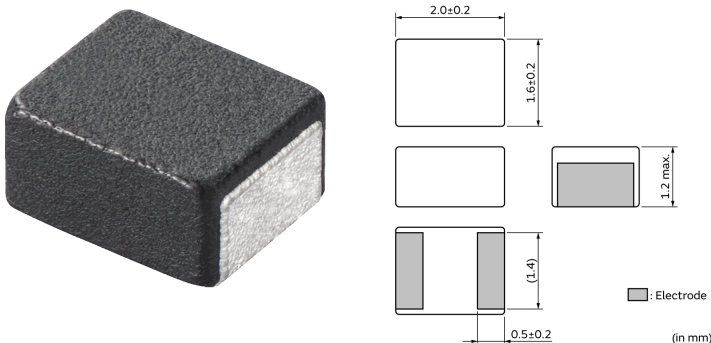
## Notices

Keep the temperature (ambient temperature plus self-generation of heat) under 155°C. The rated current is the rated current based on inductance change and the rated current based on temperature rise, whichever is smaller one.

## References

| Packaging | Specifications    | Standard Packing Quantity |
|-----------|-------------------|---------------------------|
| L         | 180 Embossed Tape | 3000                      |

## Appearance & Shape



| Mass (typ.) |        |
|-------------|--------|
| 1 piece     | 0.023g |

**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.

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## Specifications

|                                                                    |                             |
|--------------------------------------------------------------------|-----------------------------|
| L size                                                             | 2.0±0.2mm                   |
| W size                                                             | 1.6±0.2mm                   |
| T size                                                             | 1.2mm                       |
| Size code inch (mm)                                                | 0806 (2016)                 |
| Inductance                                                         | 0.33μH±20%                  |
| Inductance Test Frequency                                          | 1MHz                        |
| Rated current (Isat) (Based on Inductance change)                  | 6900mA(Max.) / 8100mA(Typ.) |
| Rated current (Itemp) (Based on Temperature rise)                  | 5100mA(Max.) / 6400mA(Typ.) |
| Max. of DC resistance                                              | 0.018Ω                      |
| DC resistance                                                      | 0.014Ω(Typ.)                |
| Operating Temperature Range (Self-temperature rise is included)    | -40°C to 155°C              |
| Operating Temperature Range(Self-temperature rise is not included) | -40°C to 115°C              |
| Class of magnetic shield                                           | Shielded (Metal Alloy)      |
| Brand                                                              | Murata                      |
| Series                                                             | DFE2MCPH_JL                 |

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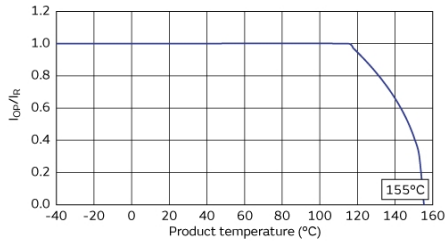
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## Notice For General

Max. current (DC, AC) as function of product temperature (derating curve).

Derating of Rated Current



$I_{op}$ : Loaded current  
 $I_a$ : Rated current

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