

Note: This datasheet may be out of date

Please download the latest datasheet of DFE2MCAHR47MJ0# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-sg/products/productdetail?partno=DFE2MCAHR47MJ0%23

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

In Production













< List of part numbers with package codes > DFE2MCAHR47MJ0L



Applications

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



Appearance & Shape







(in mm)



Notices

Rated current (Isat) is specified when the decrease of the initial inductance value at 30%. Rated current (Itemp) is specified when temperature of the inductor is raised 40°C by DC current. Keep the temperature (ambient temperature plus self-generation of heat) under 150°C. It can be considered for use with DCDC converters with a maximum voltage of 40 V or less.



References

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

| Mass (typ.) | | |
|-------------|---------|--|
| 1 piece | 0.0188g | |

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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 | 0.47µH±20% |
| Inductance Test Frequency | 1MHz |
| Rated current (Isat) (Based on Inductance change) | 3.6A(Max.) / 4.5A(Typ.) |
| Rated current (Itemp) (Based on Temperature rise) | 3.5A(Max.) / 4.4A(Typ.) |
| Max. of DC resistance | 0.033Ω |
| DC resistance | 0.027Ω(Typ.) |
| Operating Temperature Range (Self-temperature rise is included) | -40°C to 150°C |
| Operating Temperature Range(Self-temperature rise is not included) | -40°C to 110°C |
| Class of magnetic shield | Shielded (Metal Alloy) |
| Brand | Murata |
| Series | DFE2MCAH_J0 |

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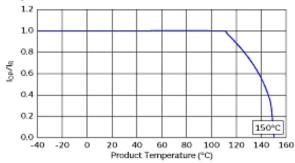
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Notice For General

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

Derating of Rated Current



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OVATOR IN ELECTRONICS

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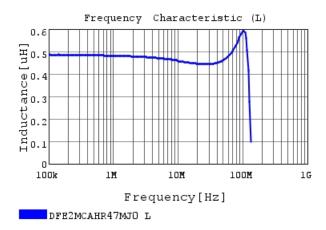
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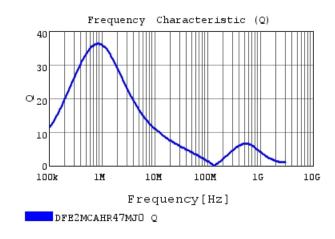
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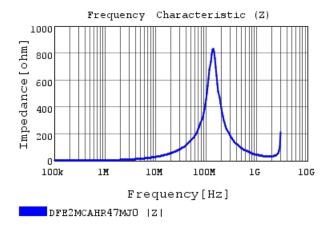


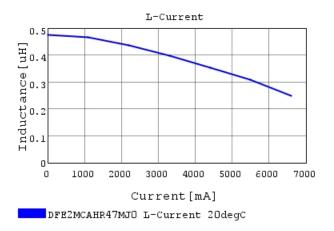
Characteristic Data

The charts below may show another part number which shares its characteristics.









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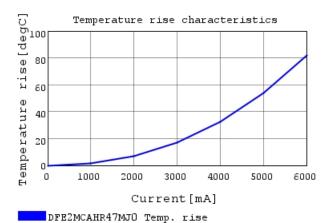


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