

# DFE2HCAHR47MJ0#

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

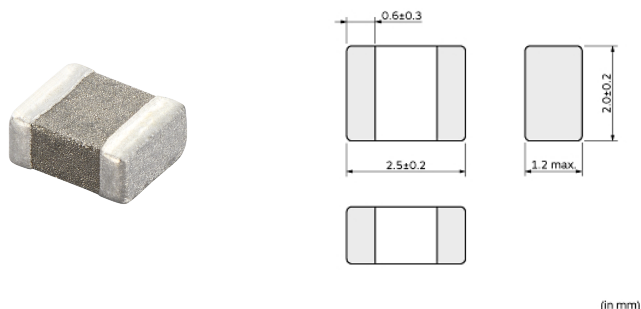


< List of part numbers with package codes >  
DFE2HCAHR47MJ0L

## Applications

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

## Appearance & Shape



## Notices

Rated current ( $I_{sat}$ ) is specified when the decrease of the initial inductance value at 30%. Rated current ( $I_{temp}$ ) 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	180 Embossed Tape	3000

Mass (typ.)	
1 piece	0.0324g

### Attention

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## Specifications

L size	2.5±0.2mm
W size	2.0±0.2mm
T size	1.2mm
Size code inch (mm)	1008 (2520)
Inductance	0.47μH±20%
Inductance Test Frequency	1MHz
Rated current (Isat) (Based on Inductance change)	5.1A(Max.) / 6.4A(Typ.)
Rated current (Itemp) (Based on Temperature rise)	4.5A(Max.) / 5.6A(Typ.)
Max. of DC resistance	0.025Ω
DC resistance	0.019Ω(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	DFE2HCAH_J0

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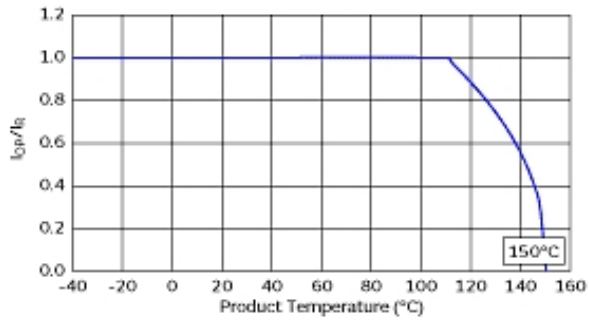
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## Notice For General

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

Derating of Rated Current



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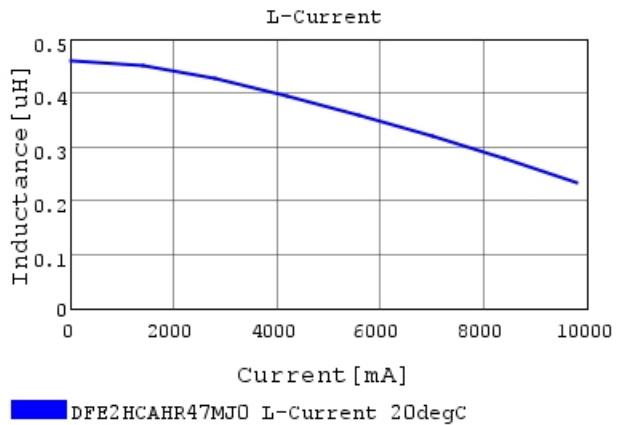
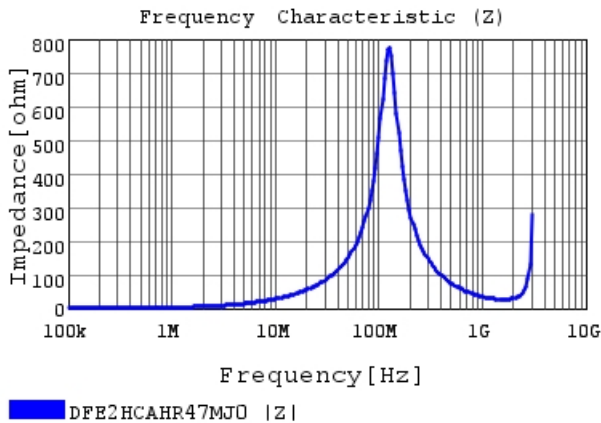
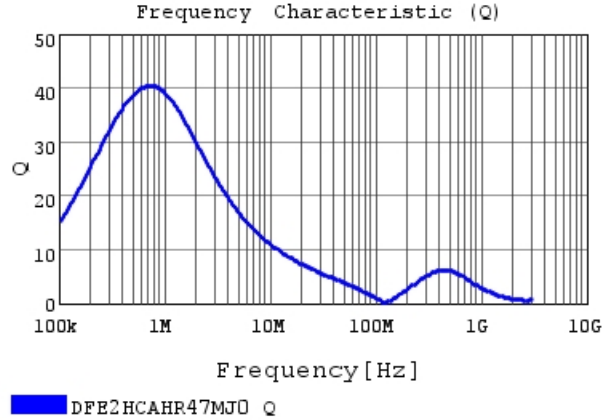
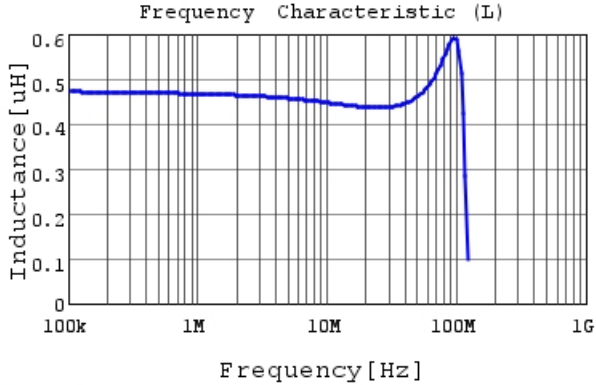
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## Characteristic Data

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



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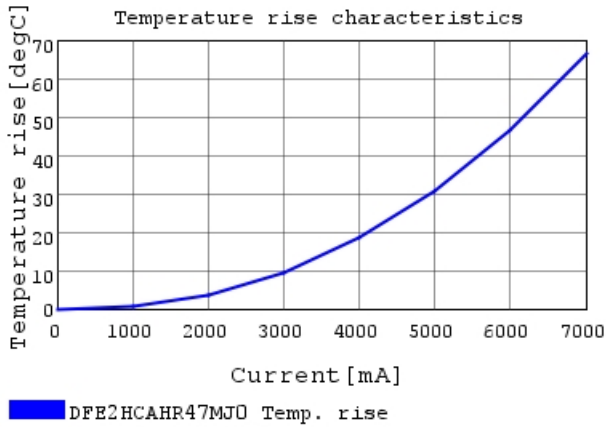
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