

# DFE2MCAHR47MJ0#



< 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		
Applications	Automotive powertrain/safety equipment	

# Appearance & Shape



+ + <sup>0.</sup>	5±0.2	
- 2	.0±0.2	1.2 max.

(in mm)

Note: This datasheet may be out of date.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/products/productdetail?partno=DFE2MCAHR47MJ0%23

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



## 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 selfgeneration 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
F			Packing
			Quantity
	L	180Embossed Tape	3000

Mass (typ.)	
1 piece	0.0188g

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### Attention

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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.





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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(Тур.)
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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Product Search Data Sheet

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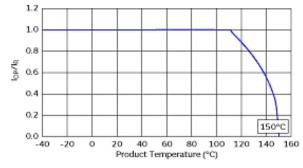
http://www.murata.com/en/products/productdetail?partno=DFE2MCAHR47MJ0%23

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

Derating of Rated Current



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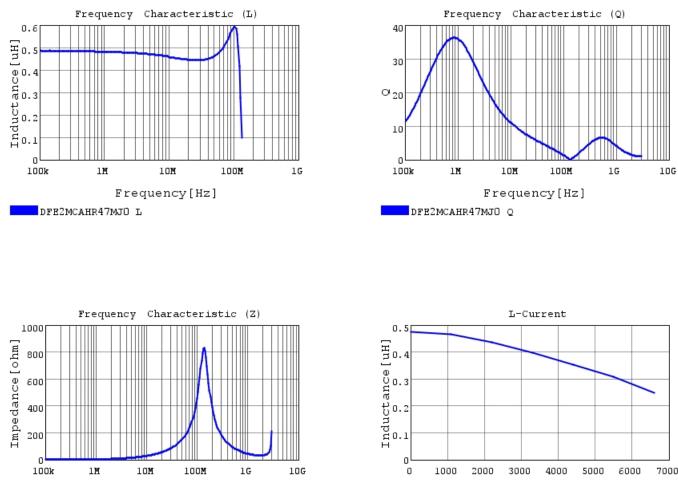
http://www.murata.com/en/products/productdetail?partno=DFE2MCAHR47MJ0%23

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# Characteristic Data

DFE2MCAHR47MJ0#

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



Current[mA] DFE2MCAHR47MJO L-Current 20degC

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Frequency[Hz]

DFE2MCAHR47MJO |Z|

Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering



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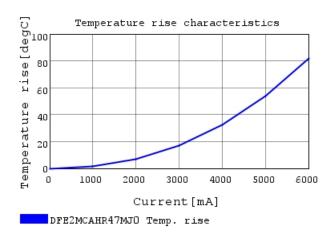


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