

Note: This datasheet may be out of date.

Please download the latest datasheet of MDH6045C-100MA# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en/products/productdetail?partno=MDH6045C-100MA%23

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

### Comply with ISO16750-3 (vibration test for Engine)















# < List of part numbers with package codes > MDH6045C-100MA=P3



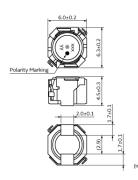
### **Applications**

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	Automotivo nowortrain/sofoty aguinment
Applications	Automotive powertrain/safety equipment



### Appearance & Shape







### **Notices**

The saturation allowable DC current value is specified when the decrease of the nominal inductance value at 30%. Rated current (based on temperature rise) is specified when temperature of the inductor on our PCB for test purpose is raised 40°C by DC current.

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





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### References

Packaging	Specifications	Standard Packing Quantity
=P3	330Embossed Tape	1000

ı	Mass (typ.)	
7	1 piece	0.55g

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## **Specifications**

L size	6.3±0.2mm
W size	6.0±0.2mm
T size	4.5±0.3mm
Size code inch (mm)	2524 (6360)
Inductance	10μH±20%
Inductance Test Frequency	0.1MHz
Rated current (Isat) (Based on Inductance change)	2A(Max.) / 2.5A(Typ.)
Rated current (Itemp) (Based on Temperature rise)	1.9A(Max.) / 2.4A(Typ.)
Max. of DC resistance	0.052Ω
DC resistance	0.040Ω±30%
Operating Temperature Range (Self-temperature rise is included)	-55°C to 150°C
Class of magnetic shield	Shielded (Ferrite Core)
Brand	Murata
Series	MDH6045C

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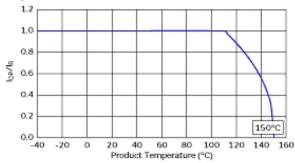
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### Notice For General

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

### Derating of Rated Current



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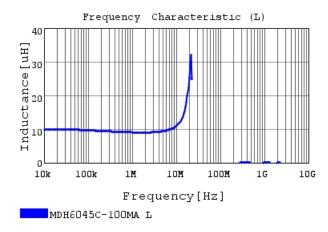
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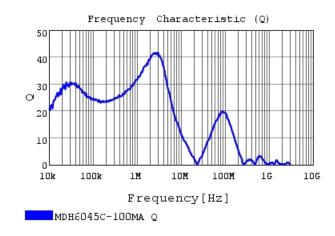
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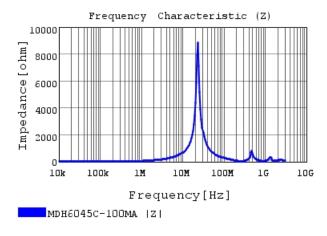


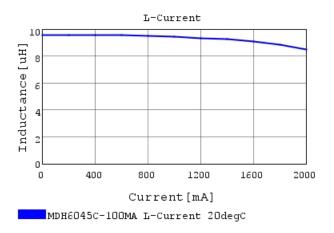
### Characteristic Data

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









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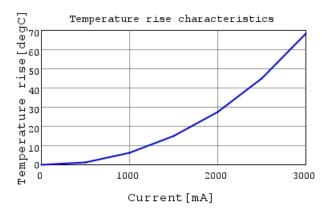


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MDH6045C-100MA Temp. rise

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