

# MDH6045C-100MA#

# indicates a package specification code.



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

## Shape

L size	6.3 ±0.2mm
W size	6.0 ±0.2mm
T size	4.5 ±0.3mm
Size code in inch (mm)	2524 (6360)

## Notes

The saturation allowable DC current value is specified when the decrease of the nominal Inductance value at 30%. (The ambient reference temperature is 20°C)  
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. (The ambient reference temperature is 20°C)

## References

Packaging code	Specifications	Minimum quantity
=P3	φ330mm Embossed taping	1000

Mass (Typ.)	
1 piece	0.55g

## Specifications

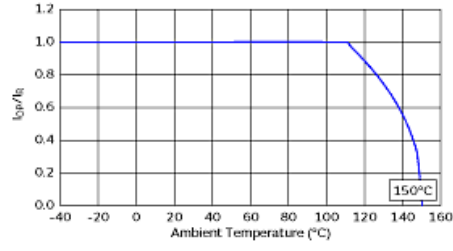
Inductance	10μH ±20%
Inductance test frequency	0.1MHz
Rated current (I <sub>sat</sub> ) (Based on Inductance change)	2000mA
Rated current (I <sub>temp</sub> ) (Based on Temperature rise)	1900mA
Max. of DC resistance	0.052Ω
Avg. of DC resistance	0.040Ω ±30%
Operating temperature range (Self-temperature rise is included)	-55~150°C
Class of magnetic shield	Ferrite Core
Series	MDH6045C

### Attention

- 1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's 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.

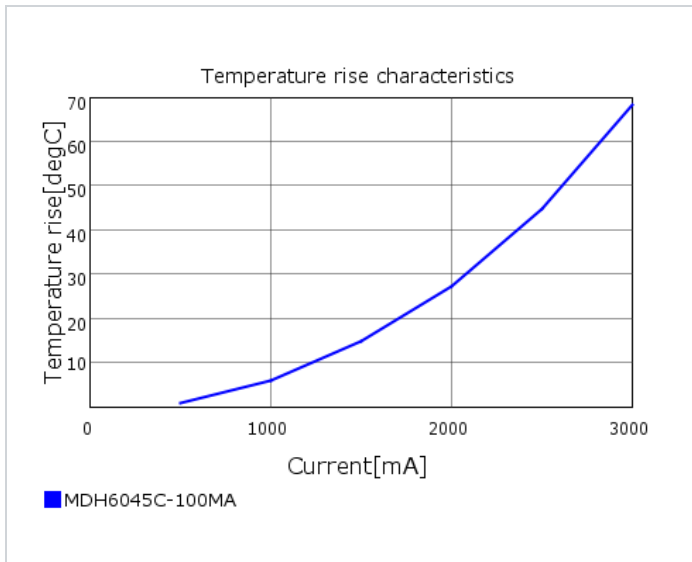
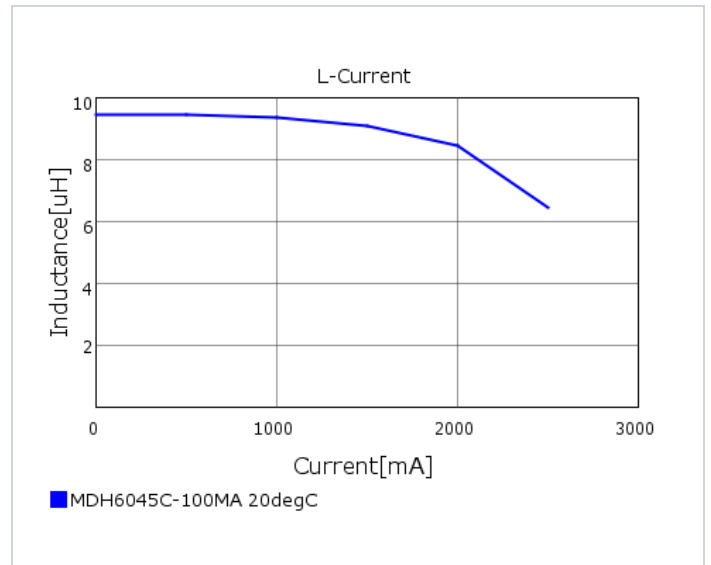
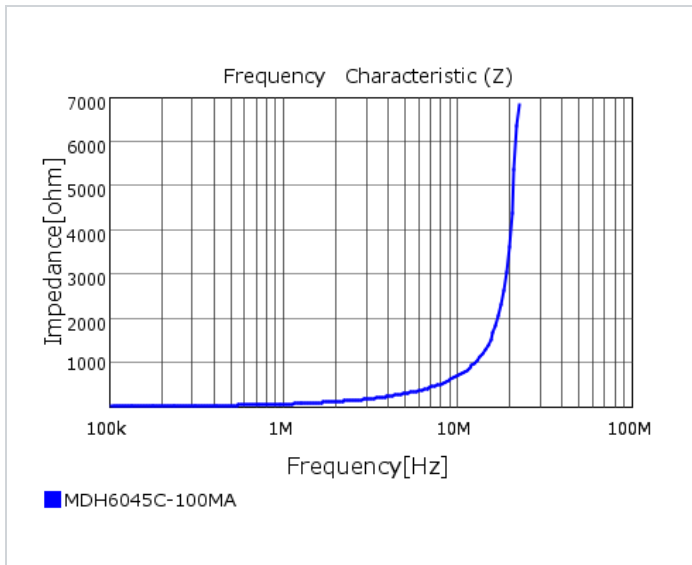
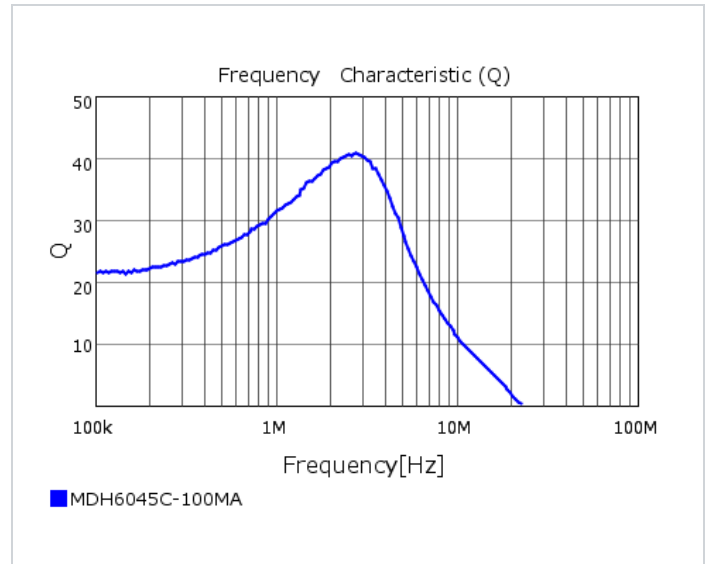
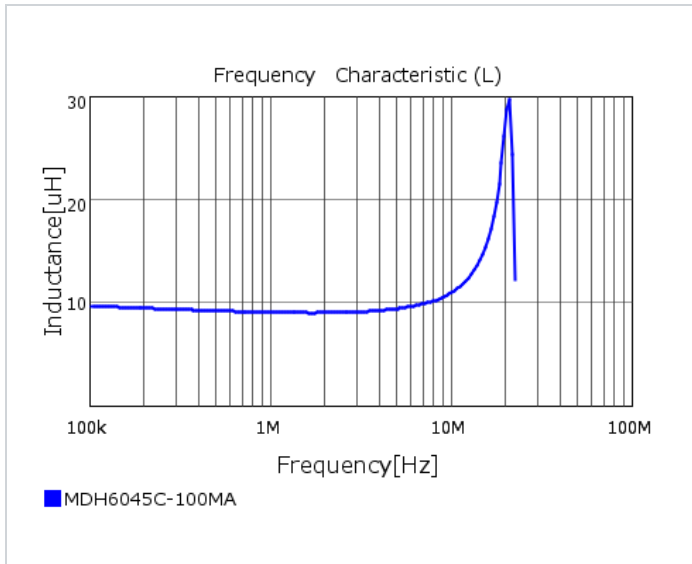
Max. current (DC, AC) as function of ambient temperature  
(derating curve).

Derating of Rated Current



 **Attention**

- 1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's 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.



**⚠ Attention**

- 1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's 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.