Metal Hybrid Inductor

CDMT40D40

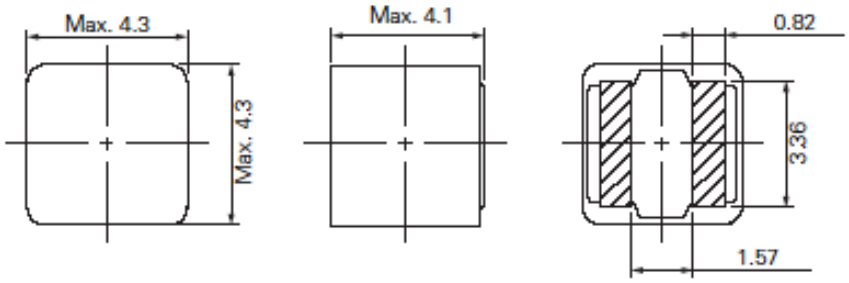
Description

- Metal Hybrid Inductor
- Magnetically shielded
- Suitable for Large Current
- Size: 4.3 x 4.3 x H4.1 mm Max.
- Product weight: 0.37g (Ref.)
- Halogen Free available
- Operating temperature range: - 40℃～+125℃
  (Not including coil's self temperature rise)

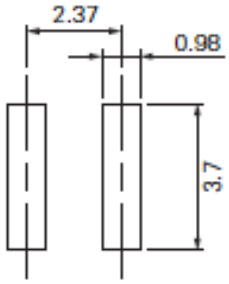
Applications

- Telecommunication base station , Server , SSD, and other low profile high current application

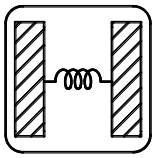
Dimension - [mm]



Reference Land pattern - [mm]



Schematics



Note： This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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Electrical Characteristics

Part No.	Inductance (μH) (±30%) ※1	D.C.R (mΩ) Max. (Typ.)	Saturation Current (A) 20℃ ※2	Temperature Rise current(A) ※3	
				※4	※5
CDMT40D40HF-8R2NC	8.2	60.6 (55.1)	3.5	2.9	3.4
CDMT40D40HF-100NC	10.0	88.0 (80.0)	2.8	2.3	3.1
CDMT40D40HF150NC	15.0	118 (107)	2.5	1.95	2.8

※ 1 Measuring frequency at 100kHz
※ 2 Saturation current: This indicates the actual value of D.C. current when the inductance becomes 30% lower than its initial value.
※ 3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes △T=40°C (Ta=20°C).
※ 4.Measurement condition: Irms testing was performed by a product in 20°C ambient.
※ 5 Measurement condition: Irms testing was performed on copper traces in 20°C ambient.
※ Discharge static electricity before handling this coil. Take the static electricity measures to prevent deterioration of electric characteristic

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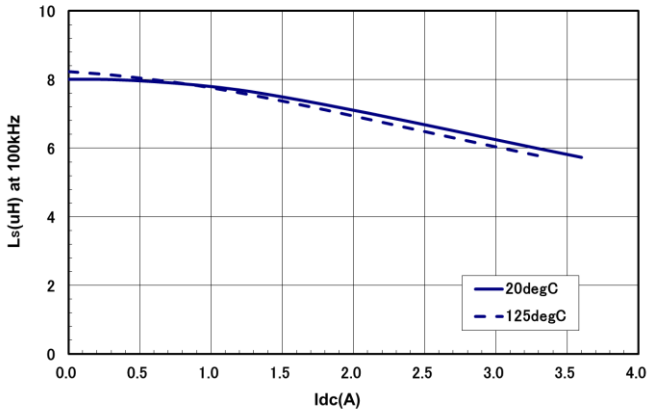
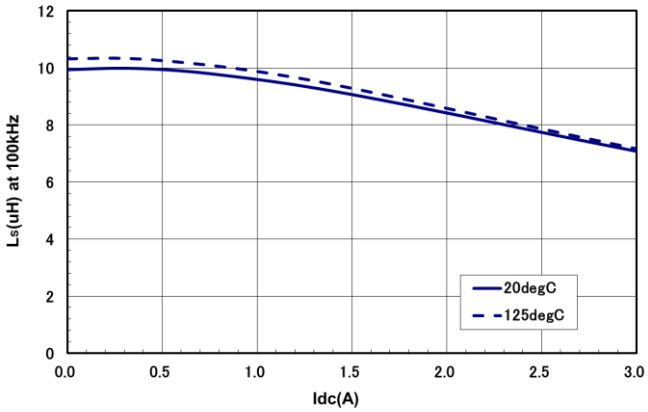
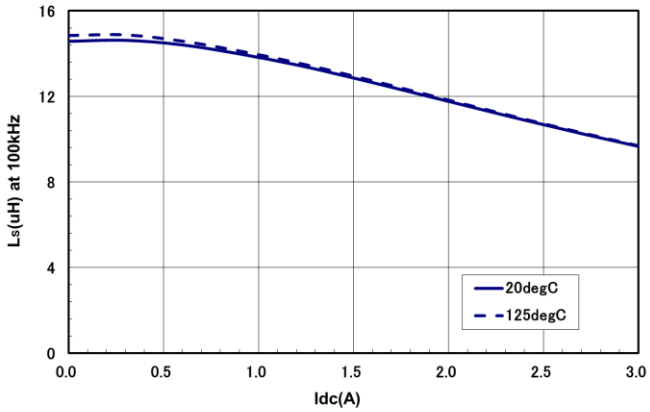
CDMT40D40HF-8R2NC



CDMT40D40HF-100NC



CDMT40D40HF-150NC



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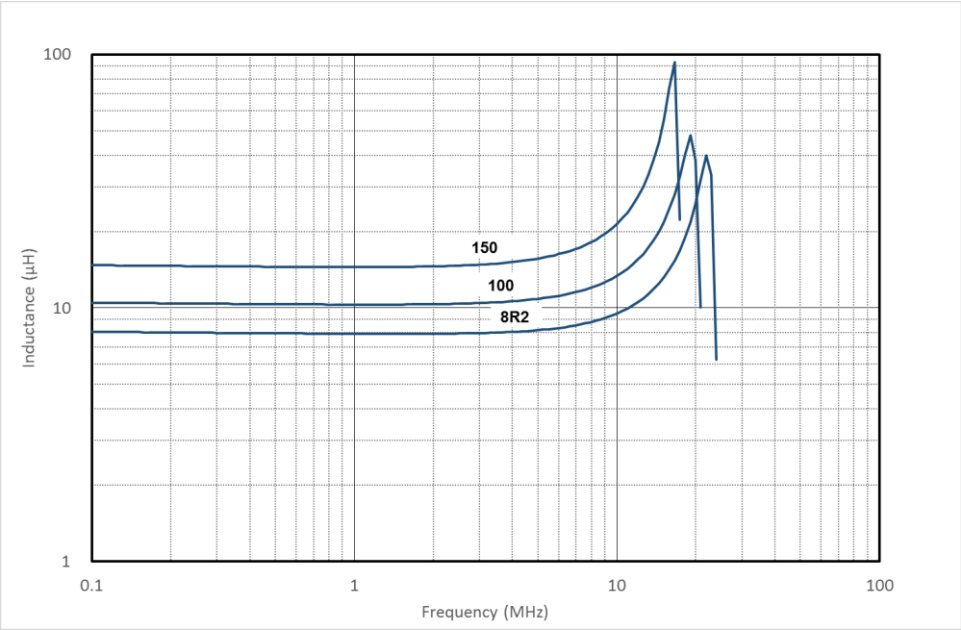
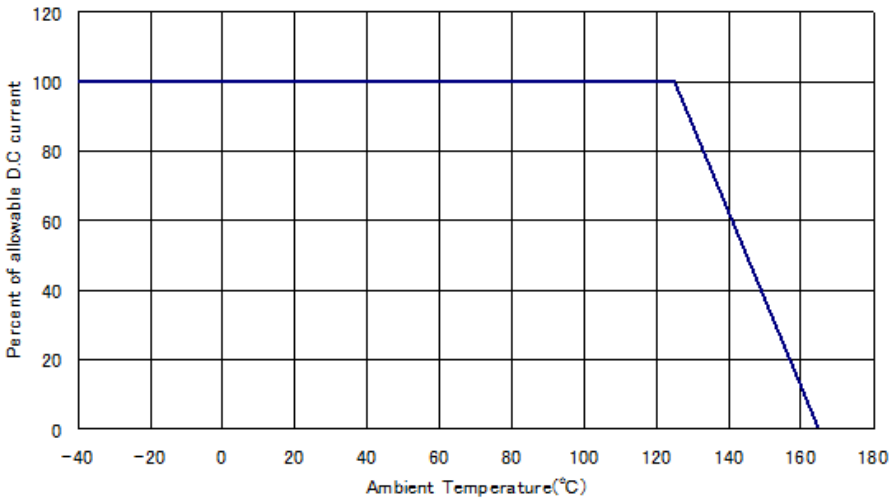
Inductance vs Frequency Graph



Derating Curve (Temperature Rise Current)



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