

# Metal Hybrid Inductor

## CDMT40D30



### Description

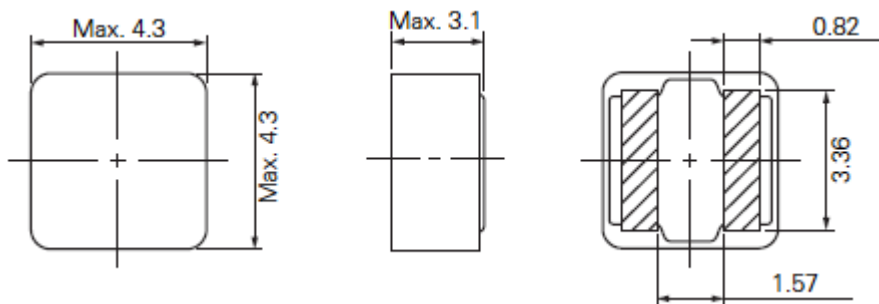
- Metal Hybrid Inductor
- Magnetically shielded
- Suitable for Large Current
- Size: 4.3 x 4.3 x H3.1 mm Max.
- Product weight: 0.28g (Ref.)
- Halogen Free available
- Operating temperature range: - 40°C ~ +125°C  
(Not including coil's self temperature rise)



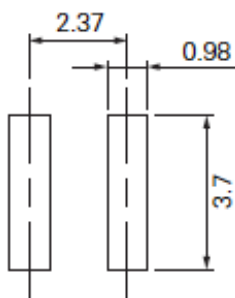
### Applications

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

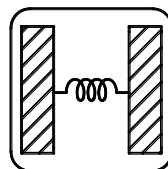
### Dimension - [mm]



### 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 ( $\mu\text{H}$ ) ( $\pm 30\%$ ) ※1	D.C.R (m $\Omega$ ) Typ. (Max.)	Saturation Current (A) 20°C ※2	Temperature Rise current(A) ※3	
				※4	※5
CDMT40D30HF-3R3NC	3.3	23.0 (25.3)	5.00	4.30	6.60
CDMT40D30HF-4R7NC	4.7	37.0 (40.7)	4.00	3.60	5.10
CDMT40D30HF-6R8NC	6.8	62.0 (68.2)	3.20	2.70	3.90

- ※ 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  $\Delta T=40^\circ\text{C}$  ( $T_a=20^\circ\text{C}$ ).
- ※ 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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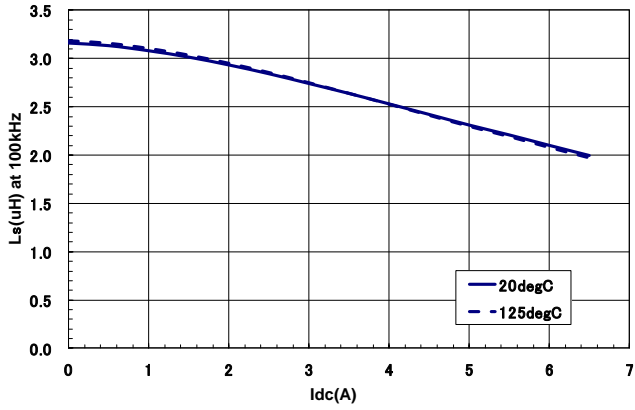
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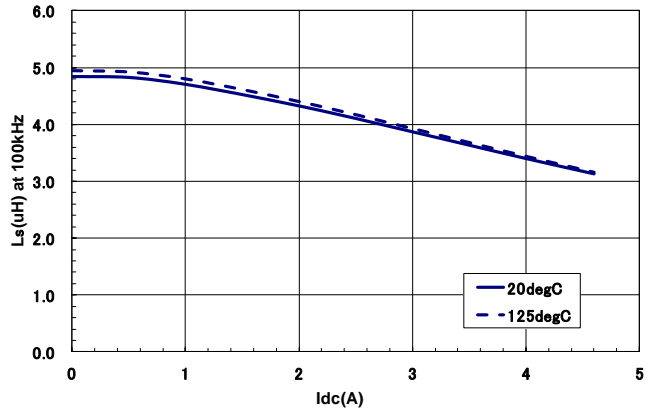


※ 8

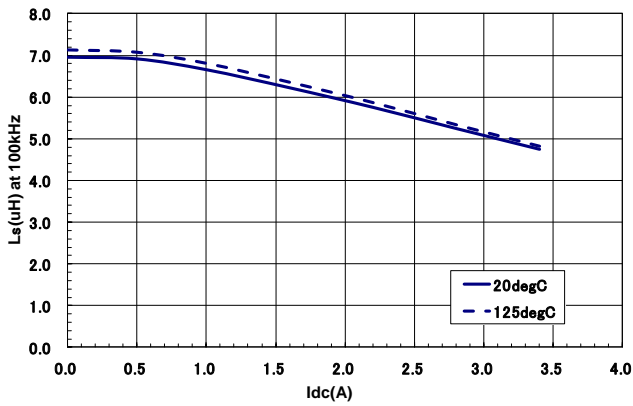
CDMT40D30HF-3R3NC



CDMT40D30HF-4R7NC



CDMT40D30HF-6R8NC



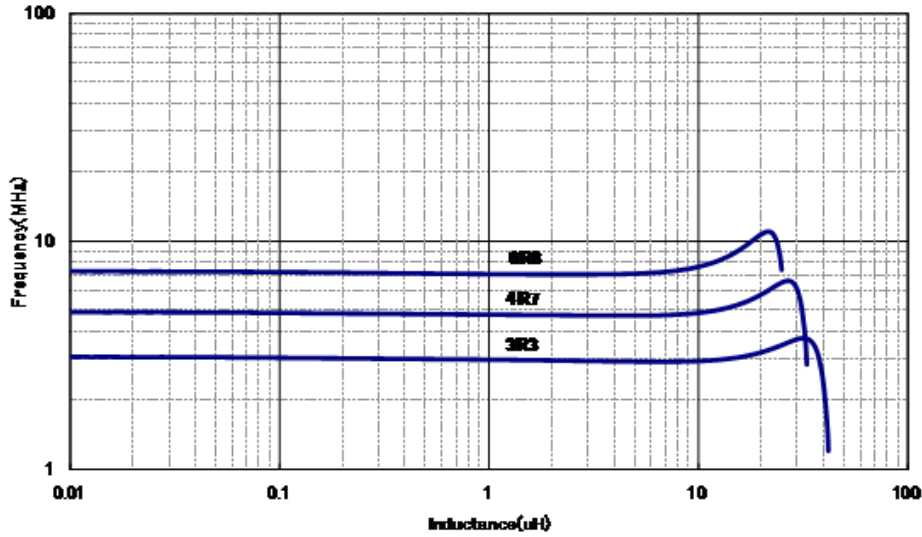
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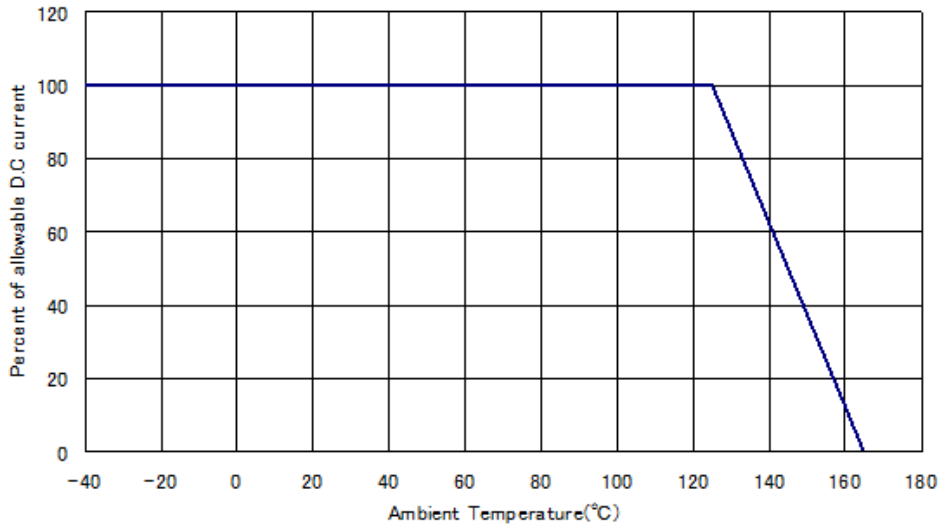
## CDMT40D30



### Inductance vs Frequency Graph



### Derating Curve (Temperature Rise Current)



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