SMD Power Inductor

CDRH50D28B/T150

Recommended Type

Description

- Ferrite drum core construction
- Magnetically shielded
- L×W×H: 5.6 x 5.3 x 3.0 mm Max.
- Product weight: 0.24g (Ref.)
- Qualified AEC-Q200
- RoHS compliance
- Absolute Maximum Voltage (across inductor): 250V
- Vibration resistance: 10Hz~2kHz/30G (MIL standard)

Environmental Data

- Operating Temperature: -55˚C to +150˚C (including self-heating)

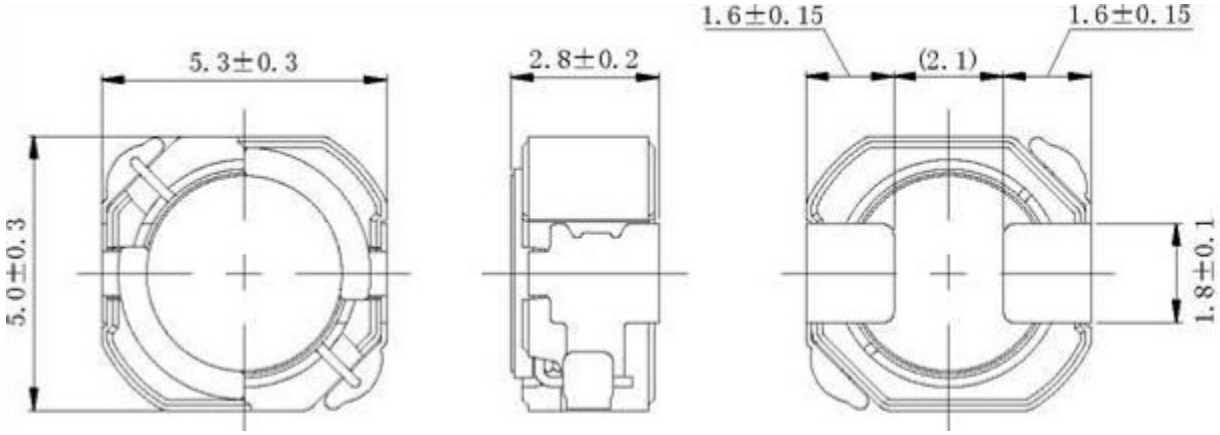
Packaging

- Carrier tape and reel packaging

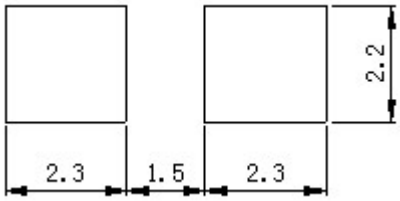
Applications

- ADAS DC/DC converter
- Other high temperature / high reliability applications for automotive

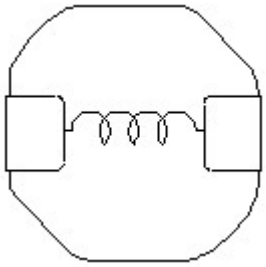
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

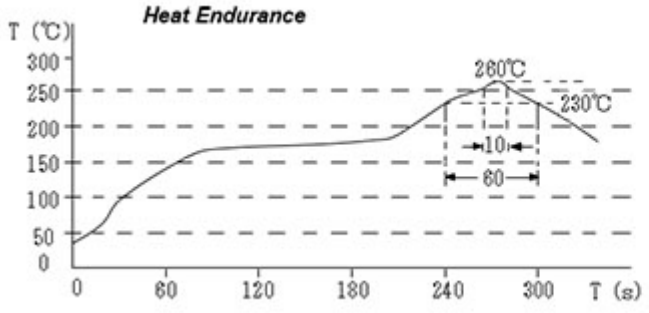
Part Number	Inductance [Within] (μH) ※1	D.C.R. at 20℃ [Within] (mΩ)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDRH50D28BT150NP-1R0NC	1.00 ± 30%	18.00 ± 30%	5.50 (6.50)	3.20 (3.60)
CDRH50D28BT150NP-1R5NC	1.50 ± 30%	20.00 ± 30%	5.50 (5.20)	3.00 (3.40)
CDRH50D28BT150NP-2R2NC	2.20 ± 30%	26.00 ± 30%	3.50 (4.20)	2.80 (3.20)
CDRH50D28BT150NP-3R3NC	3.30 ± 30%	32.00 ± 30%	2.90 (3.40)	2.40 (2.70)
CDRH50D28BT150NP-4R7NC	4.70 ± 30%	52.00 ± 30%	2.40 (2.90)	2.20 (2.50)
CDRH50D28BT150NP-6R8NC	6.80 ± 30%	75.00 ± 30%	2.00 (2.40)	1.70 (1.92)
CDRH50D28BT150NP-100MC	10.00 ± 20%	95.00 ± 20%	1.70 (2.00)	1.55 (1.75)
CDRH50D28BT150NP-150MC	15.00 ± 20%	130 ± 20%	1.40 (1.70)	1.22 (1.38)
CDRH50D28BT150NP-220MC	22.00 ± 20%	150 ± 20%	1.20 (1.40)	1.00 (1.14)
CDRH50D28BT150NP-330MC	33.00 ± 20%	280 ± 20%	0.93 (1.10)	0.88 (0.90)
CDRH50D28BT150NP-470MC	47.00 ± 20%	430 ± 20%	0.78 (0.92)	0.68 (0.76)
CDRH50D28BT150NP-680MC	68.00 ± 20%	630 ± 20%	0.67 (0.79)	0.56 (0.65)
CDRH50D28BT150NP-101MC	100 ± 20%	780 ± 20%	0.55 (0.65)	0.40 (0.46)

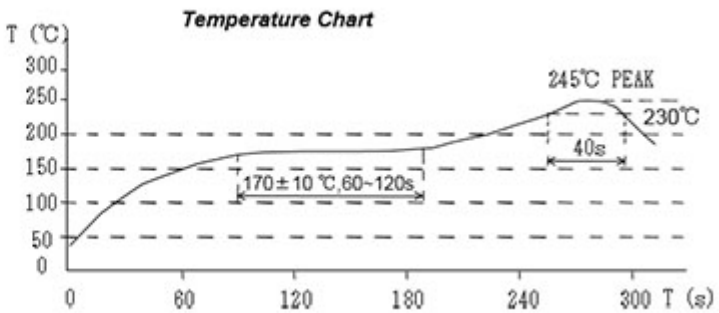
※1 Measuring frequency : Inductance at 100kHz

※2 Saturation current: This indicates the value of D.C. current when the inductance becomes 30% lower than its nominal value.

※3 Temperature rise current: The actualcurrent when temperature of coil becomes ⊿T=40℃ (Ta=20℃).

Solder Reflow Condition





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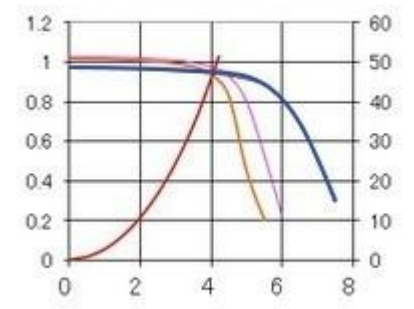
Recommended Type

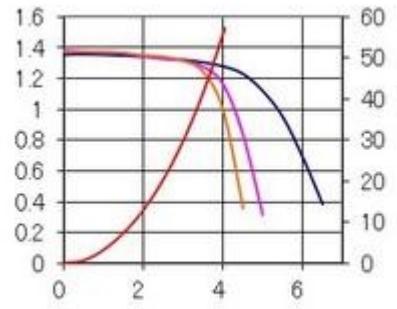
Saturation Current & Temperature Rise Graph

L (20°C) L (125°C) L (150°C) ΔT

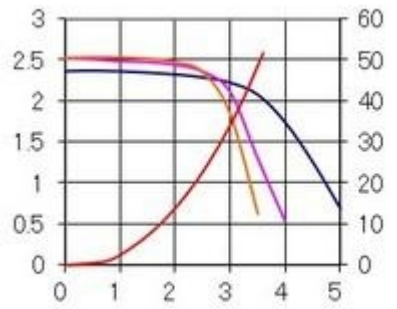
1. CDRH50D28BT150NP-1R0NC



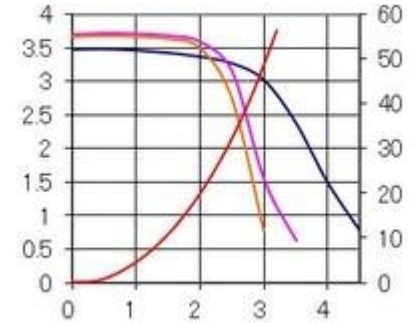
2. CDRH50D28BT150NP-1R5NC



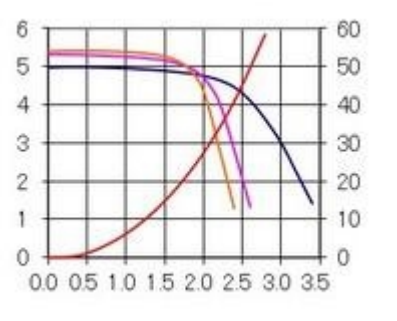
3. CDRH50D28BT150NP-2R2NC



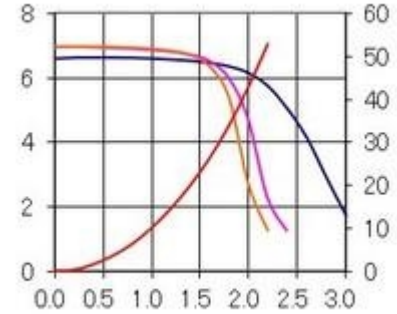
4. CDRH50D28BT150NP-3R3NC



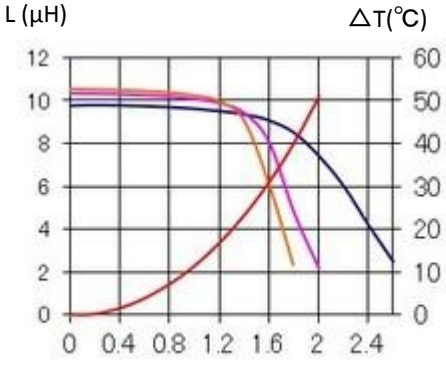
5. CDRH50D28BT150NP-4R7NC



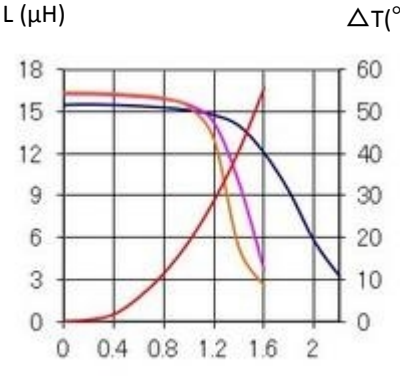
6. CDRH50D28BT150NP-6R8NC



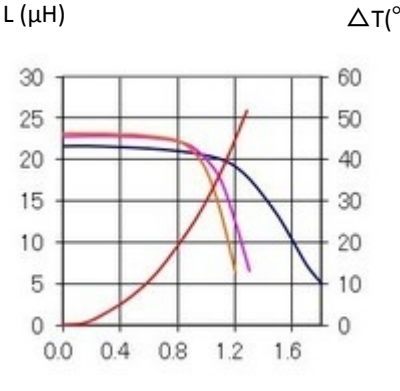
7. CDRH50D28BT150NP-100MC



8. CDRH50D28BT150NP-150MC



9. CDRH50D28BT150NP-220MC



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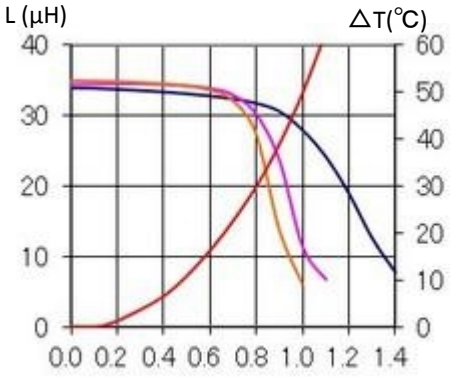
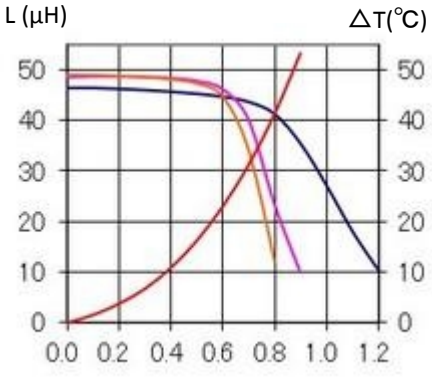
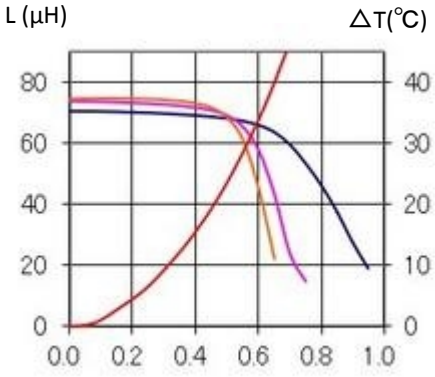
10. CDRH50D28BT150NP-330MC



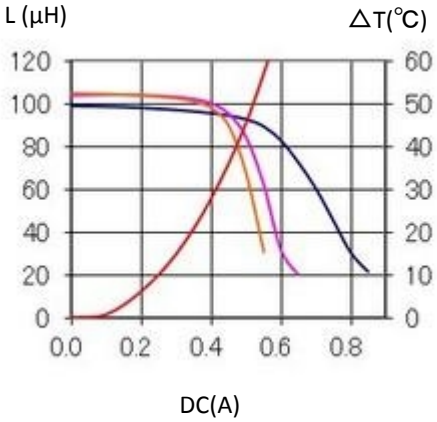
11. CDRH50D28BT150NP-470MC



12. CDRH50D28BT150NP-680MC



13. CDRH50D28BT150NP-101MC



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