SMD Power Inductor

CDRH10D60B/T150

Recommended Type



Description

- Ferrite drum core construction
- Magnetically shielded
- L×W×H: 10.3×10.0×H6.35 mm Max.
- Product weight: 1.8g (Ref.)
- Qualified AEC-Q200
- 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)

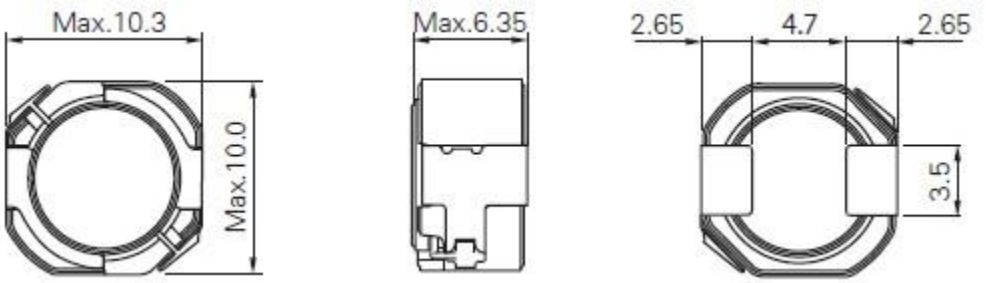
Packaging

- Carrier tape and reel packaging

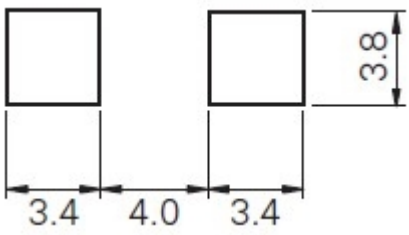
Applications

- High temp and high reliability automotive applications

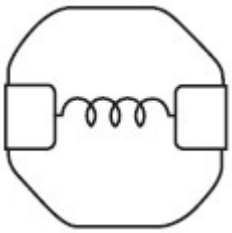
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

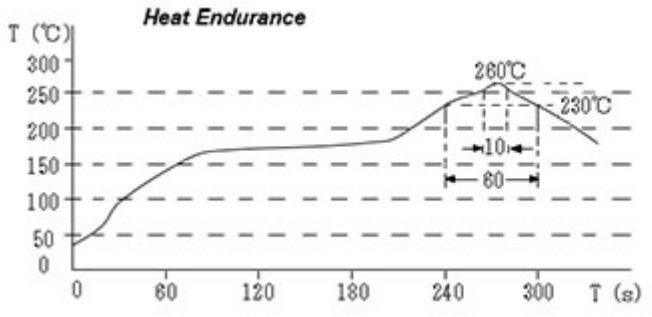
Part Number	Inductance [Within] (μH) ※1	D.C.R. at 20℃ [Within] (mΩ)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDRH10D60BT150NP-R80NC	0.80 ± 30%	5.40 ± 30%	15.90 (21.20)	11.00 (12.60)
CDRH10D60BT150NP-1R3NC	1.30 ± 30%	6.20 ± 30%	12.70 (17.00)	10.00 (11.30)
CDRH10D60BT150NP-2R0NC	2.00 ± 30%	7.10 ± 30%	10.20 (13.60)	9.70 (10.90)
CDRH10D60BT150NP-2R7NC	2.70 ± 30%	8.50 ± 30%	8.70 (11.70)	9.00 (10.40)
CDRH10D60BT150NP-4R7NC	4.70 ± 30%	12.00 ± 30%	6.60 (8.80)	7.50 (8.50)
CDRH10D60BT150NP-6R8NC	6.80 ± 30%	15.00 ± 30%	5.50 (7.40)	7.00 (7.90)
CDRH10D60BT150NP-100MC	10.00 ± 20%	17.00 ± 20%	4.60 (6.20)	6.20 (6.90)
CDRH10D60BT150NP-150MC	15.00 ± 20%	30.00 ± 20%	3.60 (4.90)	4.60 (5.30)
CDRH10D60BT150NP-220MC	22.00 ± 20%	43.00 ± 20%	3.00 (4.10)	3.75 (4.35)
CDRH10D60BT150NP-330MC	33.00 ± 20%	57.00 ± 20%	2.50 (3.35)	3.35 (3.75)
CDRH10D60BT150NP-470MC	47.00 ± 20%	74.00 ± 20%	2.10 (2.82)	3.05 (3.45)
CDRH10D60BT150NP-680MC	68.00 ± 20%	88.00 ± 20%	1.70 (2.36)	2.70 (3.10)
CDRH10D60BT150NP-101MC	100 ± 20%	160 ± 20%	1.40 (1.92)	2.00 (2.30)
CDRH10D60BT150NP-151MC	150 ± 20%	250 ± 20%	1.20 (1.60)	1.55 (1.75)
CDRH10D60BT150NP-221MC	220 ± 20%	350 ± 20%	0.90 (1.32)	1.35 (1.55)
CDRH10D60BT150NP-331MC	330 ± 20%	515 ± 20%	0.79 (1.06)	1.00 (1.15)
CDRH10D60BT150NP-471MC	470 ± 20%	770 ± 20%	0.66 (0.88)	0.90 (1.00)
CDRH10D60BT150NP-102MC	1000 ± 20%	1600 ± 20%	0.48 (0.60)	0.50 (0.60)

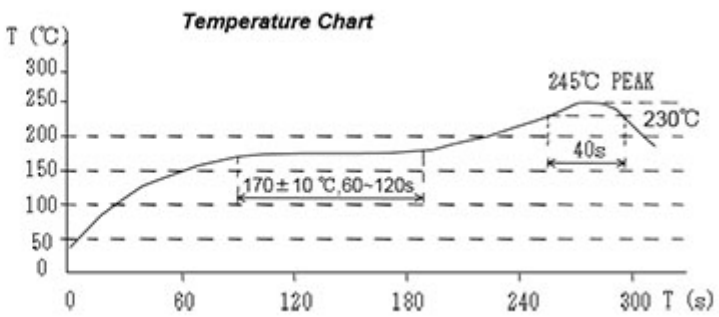
※ Measuring frequency inductance at 100kHz,1V.

※ Saturation current: DC current which becomes inductance value drop by 30% from the nominal value.

※ Temperature rise current: The value of D.C. current when the temperature of coil becomes ⊿T=40℃(Ta=20℃).

Solder Reflow Condition





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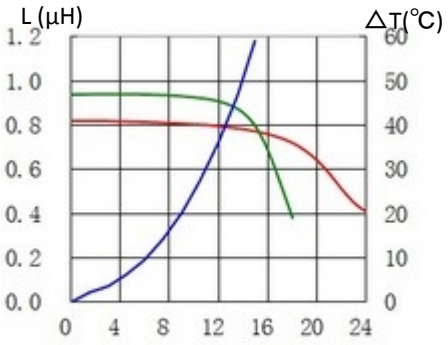
CDRH10D60B/T150

Recommended Type

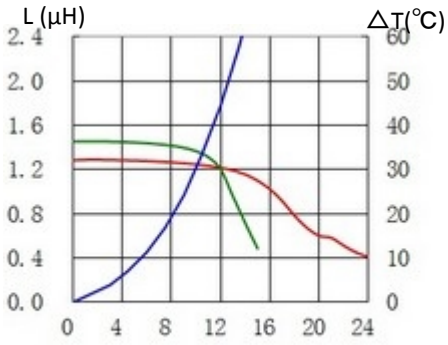
Saturation Current & Temperature Rise Graph

L (20°C) L (150°C) ΔT

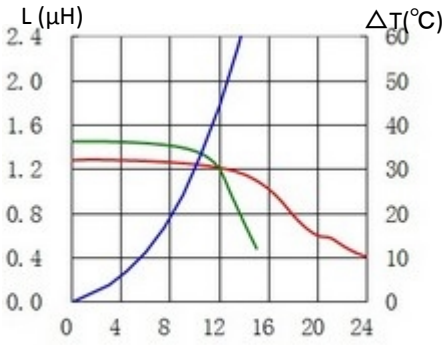
1. CDRH10D60BT150NP-R80NC



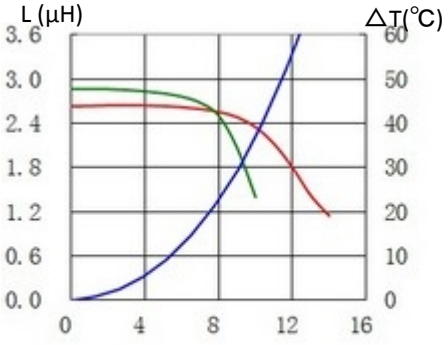
2. CDRH10D60BT150NP-1R3NC



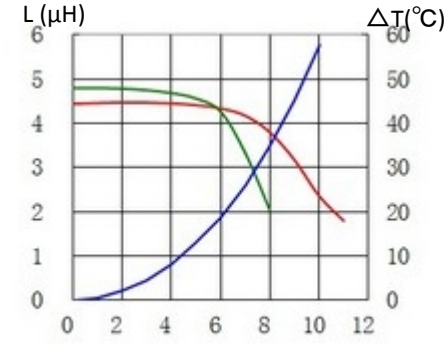
3. CDRH10D60BT150NP-2R0NC



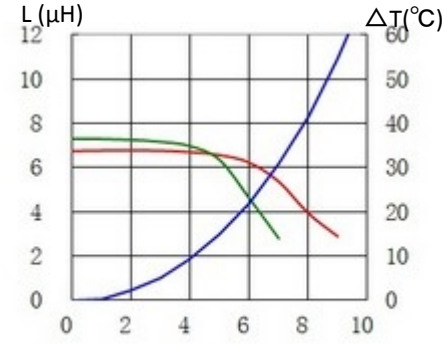
4. CDRH10D60BT150NP-2R7NC



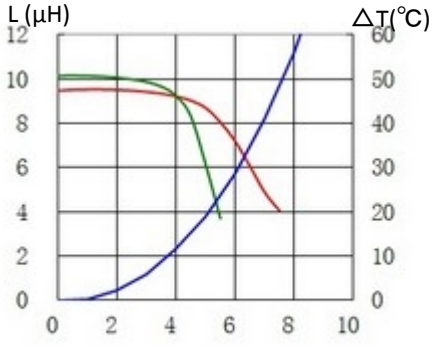
5. CDRH10D60BT150NP-4R7NC



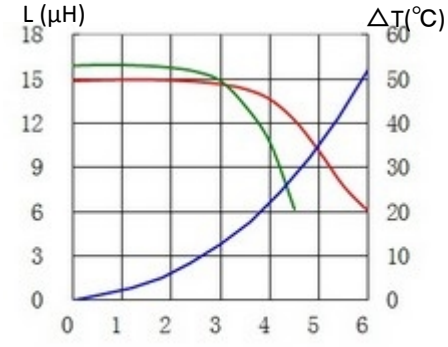
6. CDRH10D60BT150NP-6R8NC



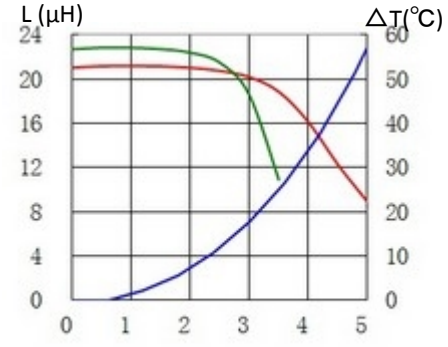
7. CDRH10D60BT150NP-100MC



8. CDRH10D60BT150NP-150MC



9. CDRH10D60BT150NP-220MC



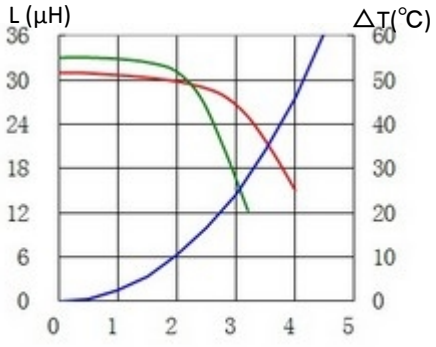
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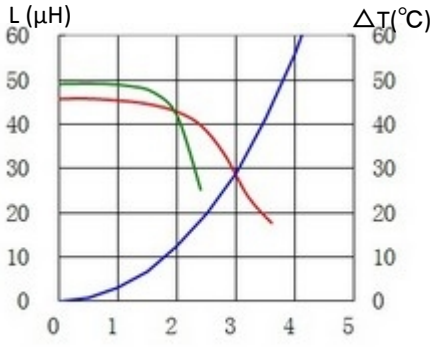
CDRH10D60B/T150

Recommended Type

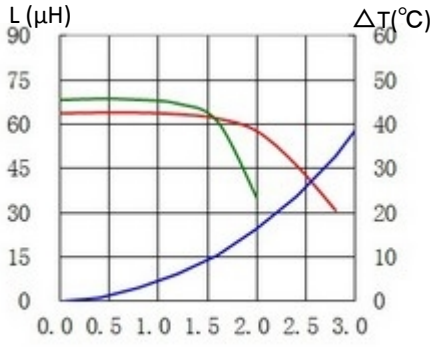
10. CDRH10D60BT150NP-330MC



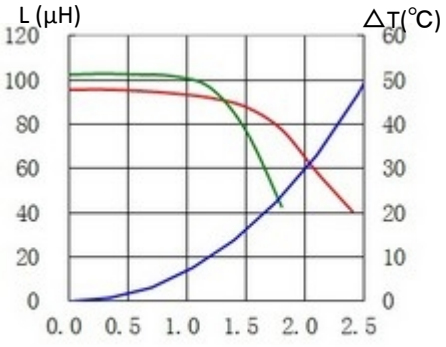
11. CDRH10D60BT150NP-470MC



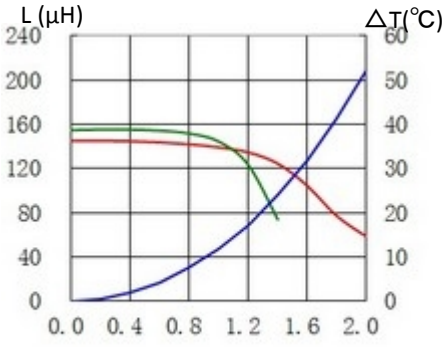
12. CDRH10D60BT150NP-680MC



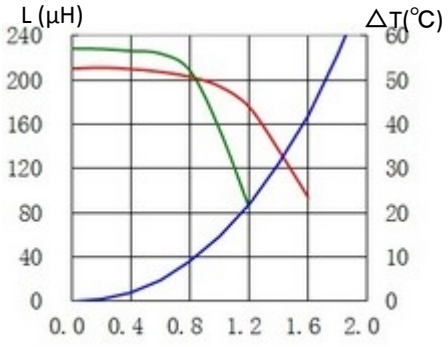
13. CDRH10D60BT150NP-101MC



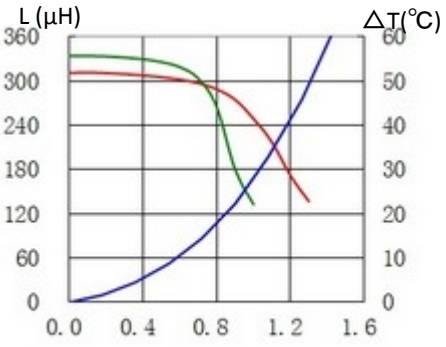
14. CDRH10D60BT150NP-151MC



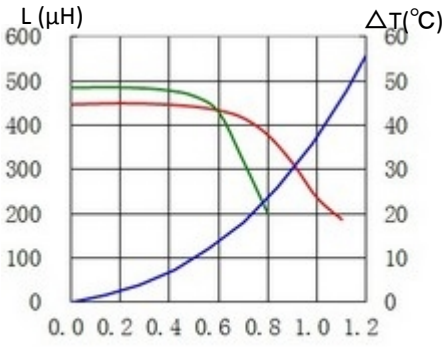
15. CDRH10D60BT150NP-221MC



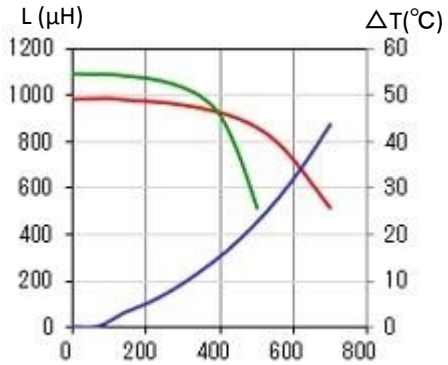
16. CDRH10D60BT150NP-331MC



17. CDRH10D60BT150NP-471MC



18. CDRH10D60BT150NP-102MC



For sales office information, please click here to visit our website.