

SMD Power Inductor

CDRH10D60B/T150



Description

- Ferrite drum core construction
- Magnetically shielded
- LxWxH: 10.3x10.0xH6.35 mm Max.
- Product weight: 1.8g (Ref.)
- Qualified AEC-Q200
- Absolute Maximum Voltage (across inductor): 250V
- Vibration resistance: 10Hz~20000Hz/30G (MIL standard)



Environmental Data

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

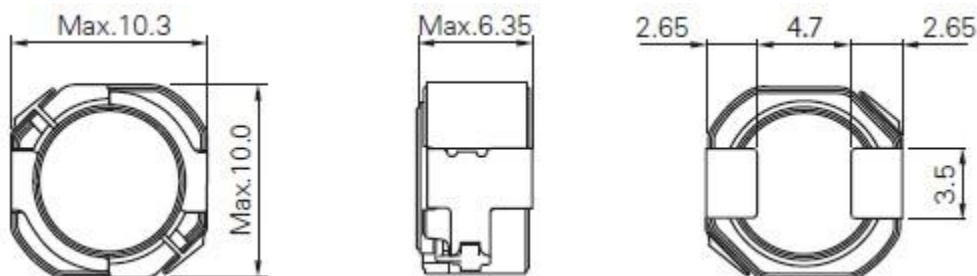
Packaging

- Carrier tape and reel packaging

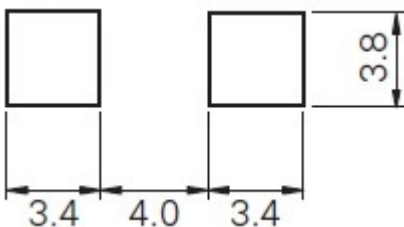
Applications

- High temp and high reliability automotive applications

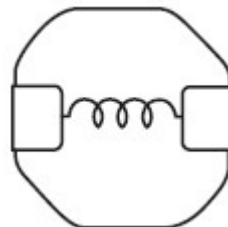
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Recommended Type

Electrical Characteristics

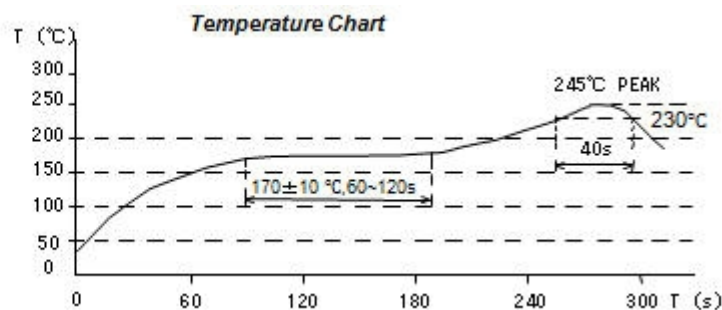
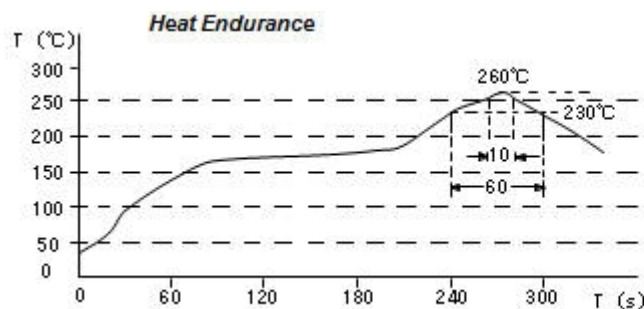
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDRH10D60BT150NP-R80NC	0.80 \pm 30%	7.02 (5.40)	15.90 (21.20)	11.00 (12.60)
CDRH10D60BT150NP-1R3NC	1.30 \pm 30%	8.06 (6.20)	12.70 (17.00)	10.00 (11.30)
CDRH10D60BT150NP-2R0NC	2.00 \pm 30%	9.23 (7.10)	10.20 (13.60)	9.70 (10.90)
CDRH10D60BT150NP-2R7NC	2.70 \pm 30%	11.10 (8.50)	8.70 (11.70)	9.00 (10.40)
CDRH10D60BT150NP-4R7NC	4.70 \pm 30%	15.60 (12.00)	6.60 (8.80)	7.50 (8.50)
CDRH10D60BT150NP-6R8NC	6.80 \pm 30%	19.50 (15.00)	5.50 (7.40)	7.00 (7.90)
CDRH10D60BT150NP-100MC	10.00 \pm 20%	20.40 (17.00)	4.60 (6.20)	6.20 (6.90)
CDRH10D60BT150NP-150MC	15.00 \pm 20%	36.00 (30.00)	3.60 (4.90)	4.60 (5.30)
CDRH10D60BT150NP-220MC	22.00 \pm 20%	51.60 (43.00)	3.00 (4.10)	3.75 (4.35)
CDRH10D60BT150NP-330MC	33.00 \pm 20%	68.40 (57.00)	2.50 (3.35)	3.35 (3.75)
CDRH10D60BT150NP-470MC	47.00 \pm 20%	88.80 (74.00)	2.10 (2.82)	3.05 (3.45)
CDRH10D60BT150NP-680MC	68.00 \pm 20%	106 (88.00)	1.70 (2.36)	2.70 (3.10)
CDRH10D60BT150NP-101MC	100 \pm 20%	192 (160)	1.40 (1.92)	2.00 (2.30)
CDRH10D60BT150NP-151MC	150 \pm 20%	300 (250)	1.20 (1.60)	1.55 (1.75)
CDRH10D60BT150NP-221MC	220 \pm 20%	420 (350)	0.90 (1.32)	1.35 (1.55)
CDRH10D60BT150NP-331MC	330 \pm 20%	618 (515)	0.79 (1.06)	1.00 (1.15)
CDRH10D60BT150NP-471MC	470 \pm 20%	924 (770)	0.66 (0.88)	0.90 (1.00)

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

Solder Reflow Condition



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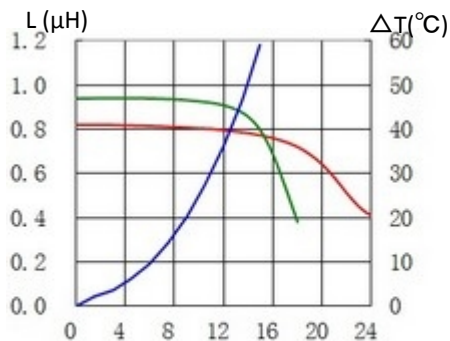
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Saturation Current & Temperature Rise Graph

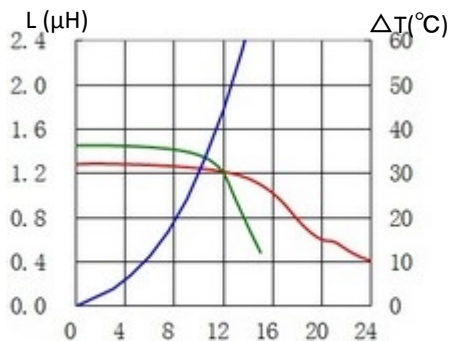
— L (20°C) — L (150°C) — ΔT

1. CDRH10D60BT150NP-R80NC



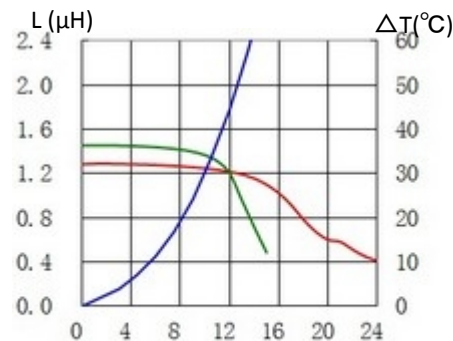
DC(A)

2. CDRH10D60BT150NP-1R3NC



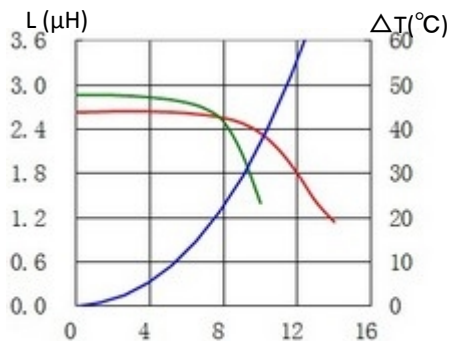
DC(A)

3. CDRH10D60BT150NP-2R0NC



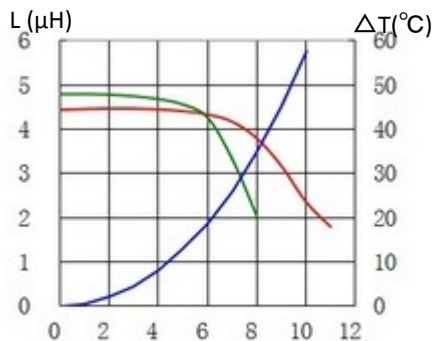
DC(A)

4. CDRH10D60BT150NP-2R7NC



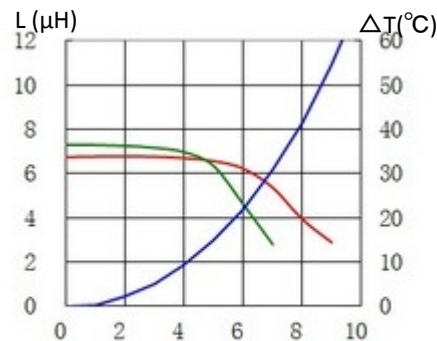
DC(A)

5. CDRH10D60BT150NP-4R7NC



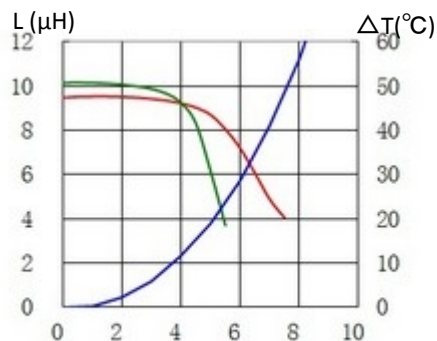
DC(A)

6. CDRH10D60BT150NP-6R8NC



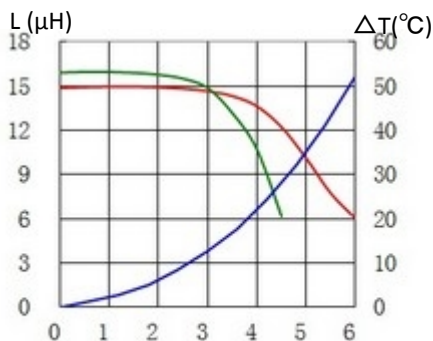
DC(A)

7. CDRH10D60BT150NP-100MC



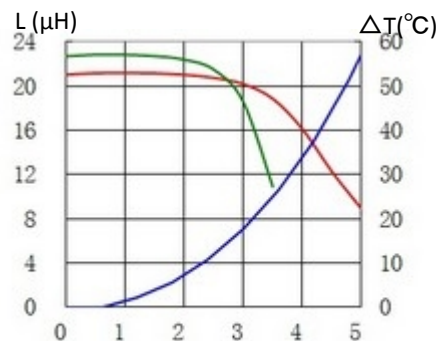
DC(A)

8. CDRH10D60BT150NP-150MC



DC(A)

9. CDRH10D60BT150NP-220MC



DC(A)

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

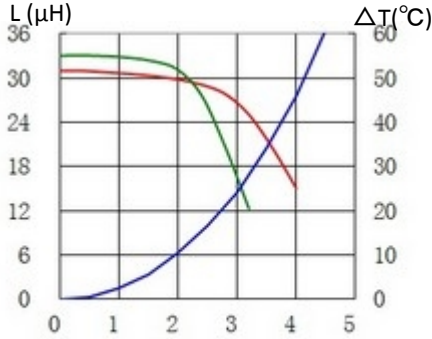
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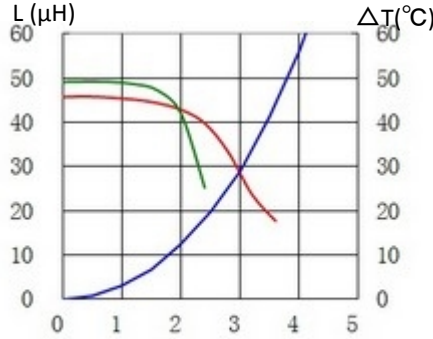
Recommended Type

10. CDRH10D60BT150NP-330MC



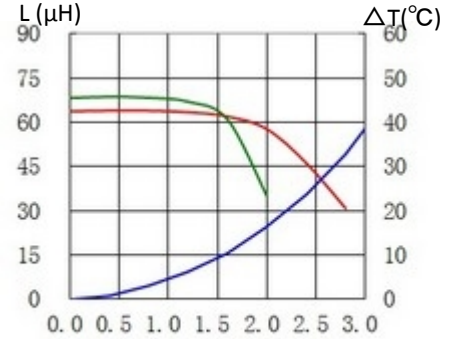
DC(A)

11. CDRH10D60BT150NP-470MC



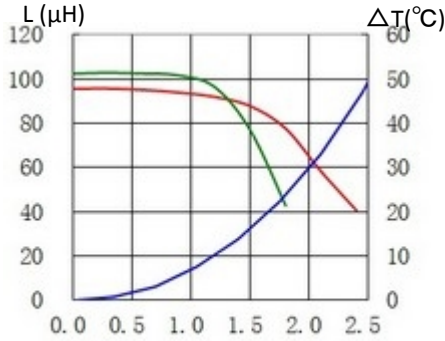
DC(A)

12. CDRH10D60BT150NP-680MC



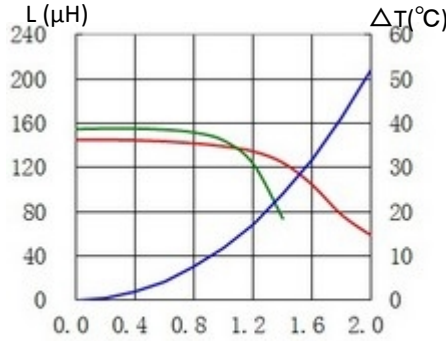
DC(A)

13. CDRH10D60BT150NP-101MC



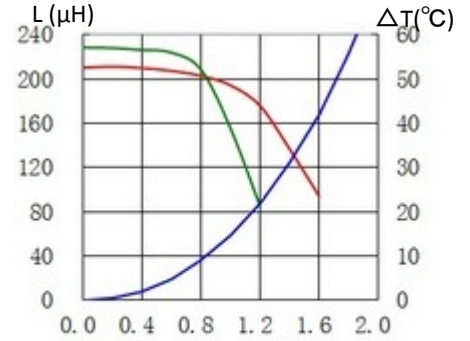
DC(A)

14. CDRH10D60BT150NP-151MC



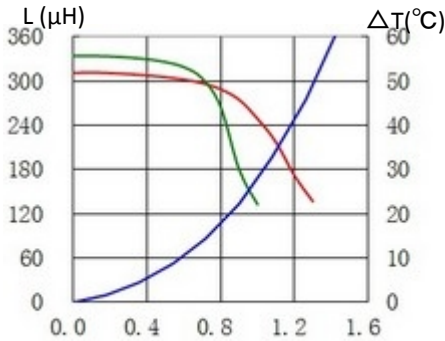
DC(A)

15. CDRH10D60BT150NP-221MC



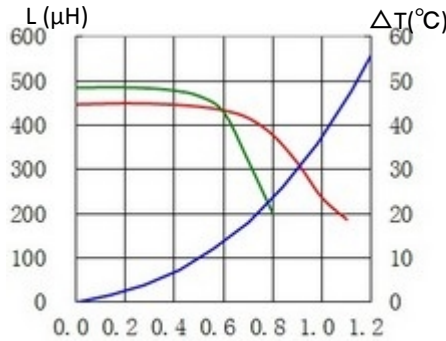
DC(A)

16. CDRH10D60BT150NP-331MC



DC(A)

17. CDRH10D60BT150NP-471MC



DC(A)



For sales office information, please [click here](#) to visit our website.