

SMD Power Inductor

CDRH80D65B/T150



Recommended Type

Description

- Magnetically shielded
- L×W×H: 8.6 × 8.2 × 6.8mm Max.
- Product weight: 1.3g (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)

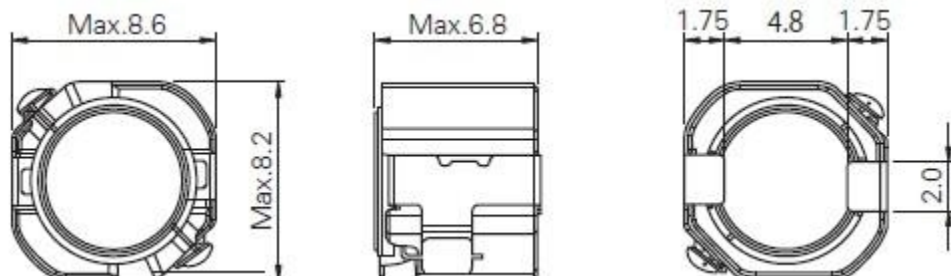
Packaging

- Carrier tape and reel packaging

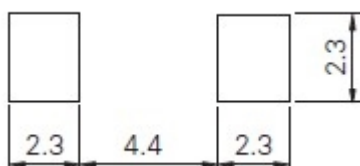
Applications

- High temp and high reliability automotive applications

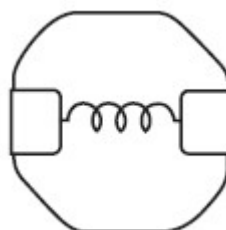
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

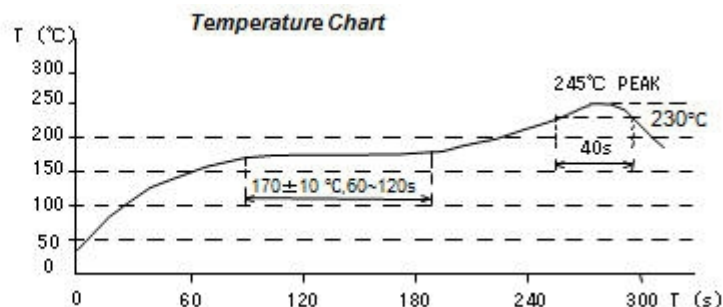
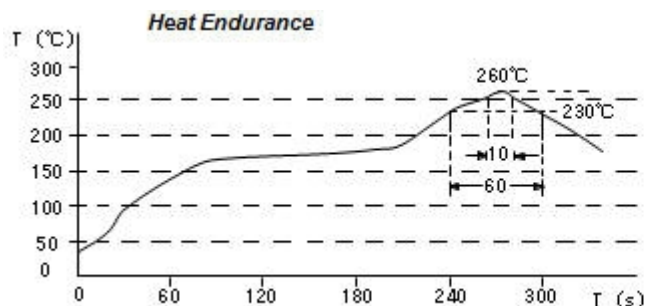
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDRH80D65BT150NP-1R0NC	1.00 $\pm$ 30%	8.32 (6.40)	12.10 (14.30)	7.60 (8.74)
CDRH80D65BT150NP-1R5NC	1.50 $\pm$ 30%	9.75 (7.50)	9.80 (11.60)	6.80 (7.80)
CDRH80D65BT150NP-2R2NC	2.20 $\pm$ 30%	12.50 (9.60)	8.00 (9.50)	5.80 (6.71)
CDRH80D65BT150NP-3R3NC	3.30 $\pm$ 30%	14.00 (10.80)	6.50 (7.65)	5.50 (6.35)
CDRH80D65BT150NP-3R9NC	3.90 $\pm$ 30%	15.30 (11.80)	5.90 (7.05)	5.30 (6.10)
CDRH80D65BT150NP-4R7NC	4.70 $\pm$ 30%	17.20 (13.20)	5.50 (6.49)	4.80 (5.49)
CDRH80D65BT150NP-6R8NC	6.80 $\pm$ 30%	20.50 (15.80)	4.50 (5.40)	4.40 (5.02)
CDRH80D65BT150NP-100MC	10.00 $\pm$ 20%	23.80 (19.80)	3.80 (4.50)	3.90 (4.54)
CDRH80D65BT150NP-150MC	15.00 $\pm$ 20%	42.00 (35.00)	3.00 (3.55)	2.70 (3.16)
CDRH80D65BT150NP-220MC	22.00 $\pm$ 20%	58.80 (49.00)	2.40 (2.94)	2.40 (2.83)
CDRH80D65BT150NP-330MC	33.00 $\pm$ 20%	103 (86.00)	2.00 (2.42)	1.60 (1.93)
CDRH80D65BT150NP-470MC	47.00 $\pm$ 20%	126 (105)	1.70 (2.02)	1.50 (1.74)
CDRH80D65BT150NP-680MC	68.00 $\pm$ 20%	157 (131)	1.40 (1.67)	1.30 (1.57)
CDRH80D65BT150NP-101MC	100 $\pm$ 20%	202 (168)	1.10 (1.41)	1.20 (1.37)
CDRH80D65BT150NP-151MC	150 $\pm$ 20%	320 (267)	0.99 (1.17)	0.95 (1.09)
CDRH80D65BT150NP-221MC	220 $\pm$ 20%	570 (475)	0.79 (0.94)	0.64 (0.73)
CDRH80D65BT150NP-331MC	330 $\pm$ 20%	775 (646)	0.65 (0.77)	0.59 (0.67)
CDRH80D65BT150NP-471MC	470 $\pm$ 20%	959 (799)	0.54 (0.64)	0.53 (0.61)
CDRH80D65BT150NP-681MC	680 $\pm$ 20%	1420 (1180)	0.45 (0.53)	0.40 (0.46)
CDRH80D65BT150NP-102MC	1000 $\pm$ 20%	2380 (1980)	0.36 (0.43)	0.30 (0.35)

※ 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



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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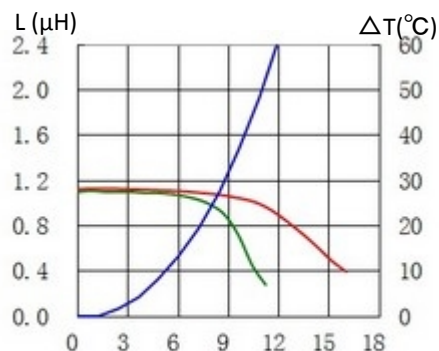
CDRH80D65B/T150



Saturation Current & Temperature Rise Graph

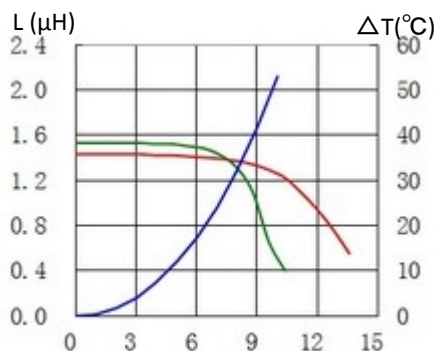
— L (20°C) — L (150°C) — ΔT

1. CDRH80D65BT150NP-1R0NC



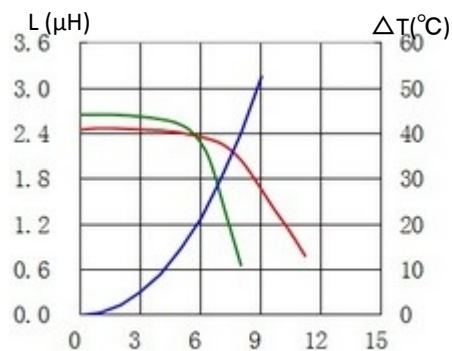
DC(A)

2. CDRH80D65BT150NP-1R5NC



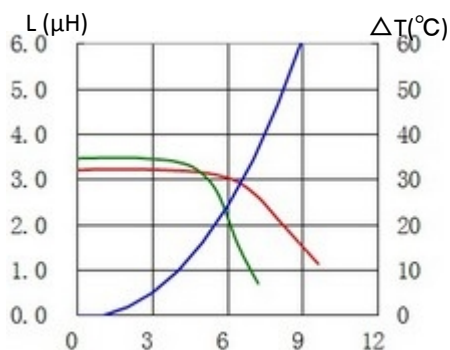
DC(A)

3. CDRH80D65BT150NP-2R2NC



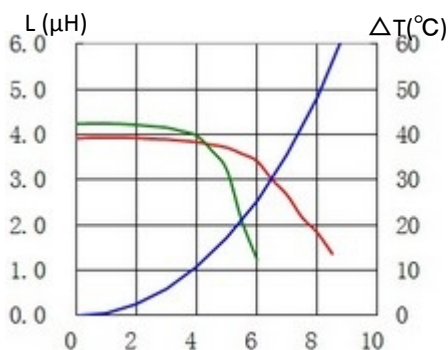
DC(A)

4. CDRH80D65BT150NP-3R3NC



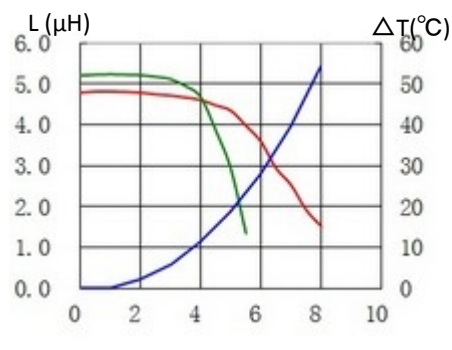
DC(A)

5. CDRH80D65BT150NP-3R9NC



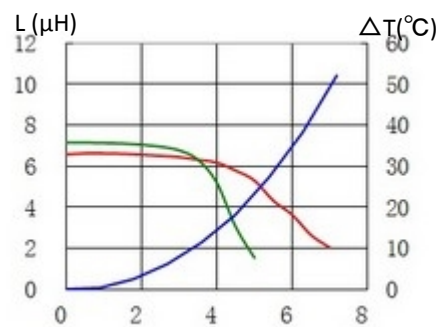
DC(A)

6. CDRH80D65BT150NP-4R7NC



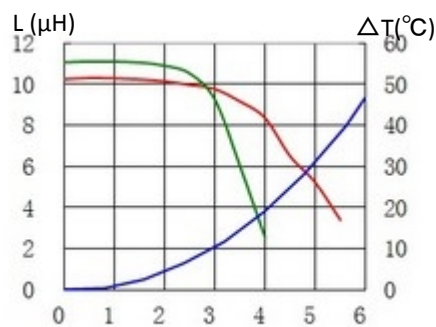
DC(A)

7. CDRH80D65BT150NP-6R8NC



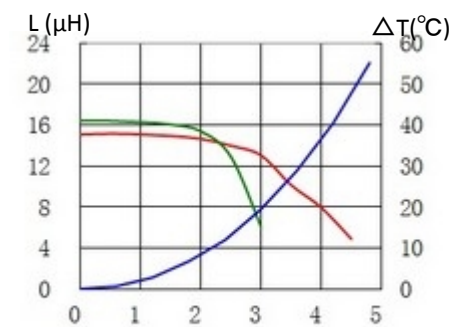
DC(A)

8. CDRH80D65BT150NP-100MC



DC(A)

9. CDRH80D65BT150NP-150MC



DC(A)

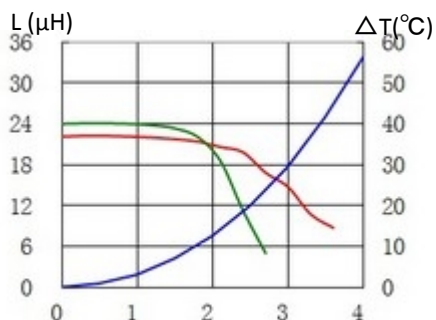
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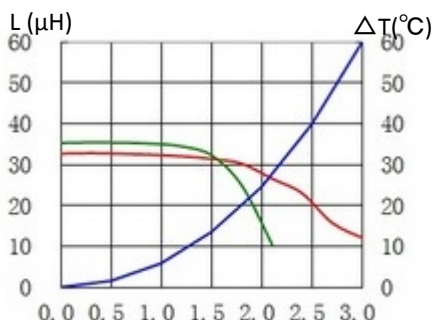


10. CDRH80D65BT150NP-220MC



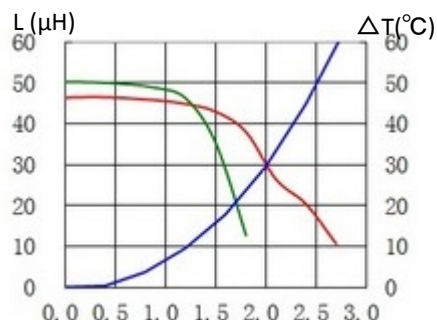
DC(A)

11. CDRH80D65BT150NP-330MC



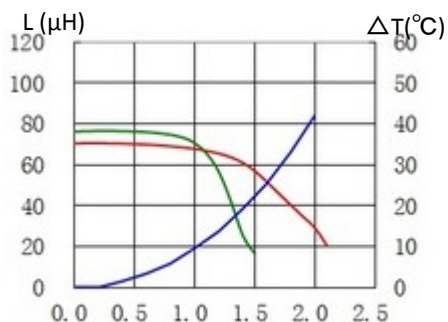
DC(A)

12. CDRH80D65BT150NP-470MC



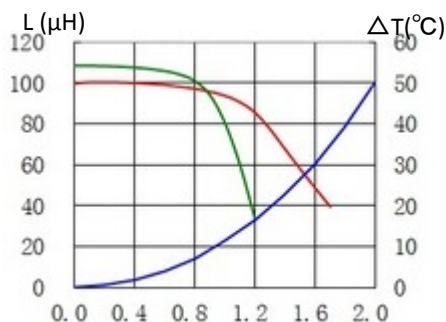
DC(A)

13. CDRH80D65BT150NP-680MC



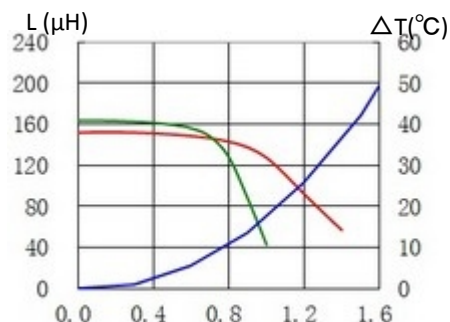
DC(A)

14. CDRH80D65BT150NP-101MC



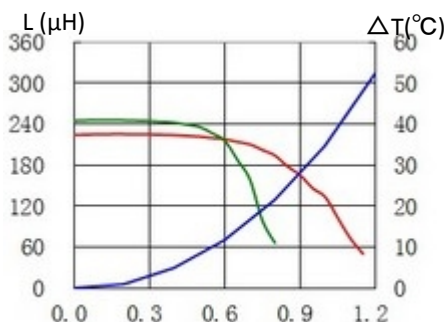
DC(A)

15. CDRH80D65BT150NP-151MC



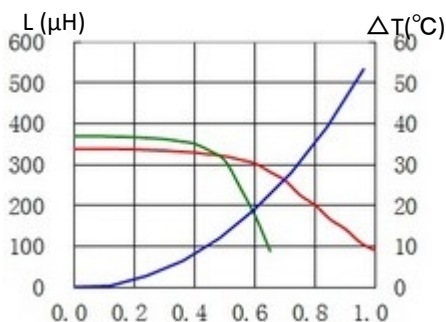
DC(A)

16. CDRH80D65BT150NP-221MC



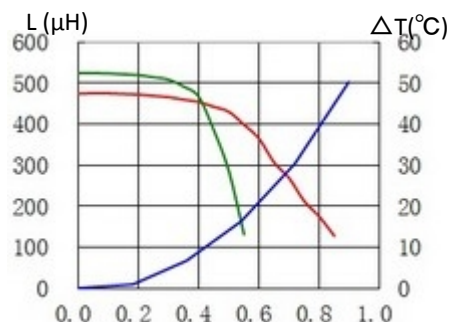
DC(A)

17. CDRH80D65BT150NP-331MC



DC(A)

18. CDRH80D65BT150NP-471MC



DC(A)

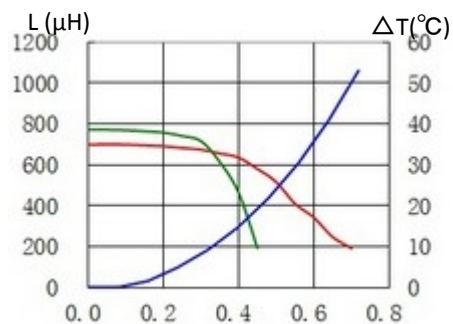
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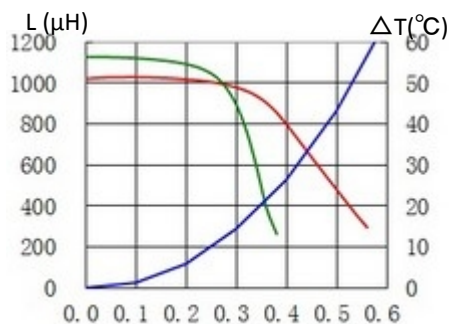
Recommended Type

19. CDRH80D65BT150NP-681MC



DC(A)

20. CDRH80D65BT150NP-102MC



DC(A)



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