

# SMD Power Inductor

## CDRH60D45B/T150



### 特点

- Magnetically shielded
- L×W×H: 6.6×6.3×H4.8 mm Max.
- Qualified AEC-Q200
- Absolute Maximum Voltage (across inductor): 250V
- Vibration resistance: 10Hz~2kHz/30G (MIL standard)



### 环境规格

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

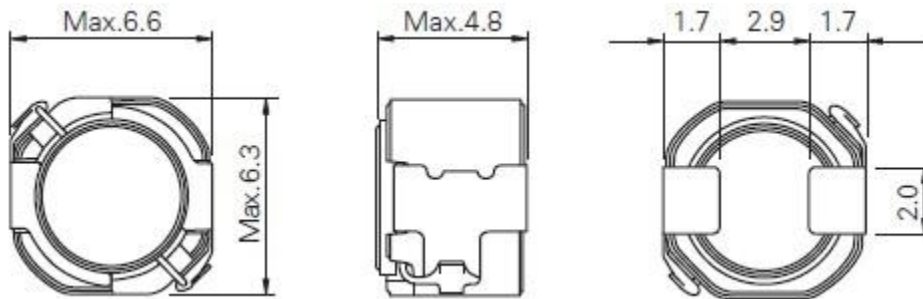
### 包装

- Carrier tape and reel packaging

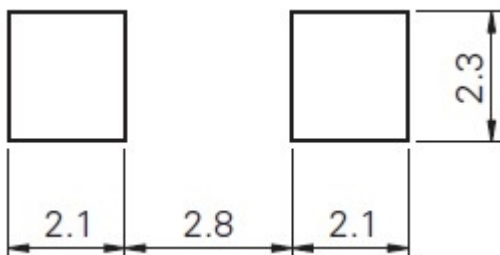
### 用途

- High temp and high reliability automotive applications

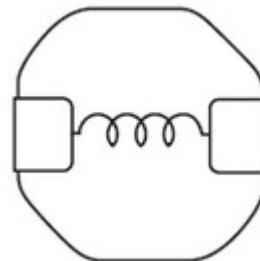
### 外形尺寸 - [mm]



### 推荐焊盘尺寸 - [mm]



### 接线图 (底面)





### 电气特性规格

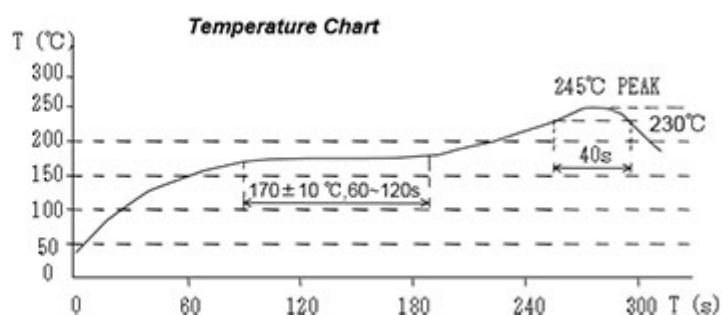
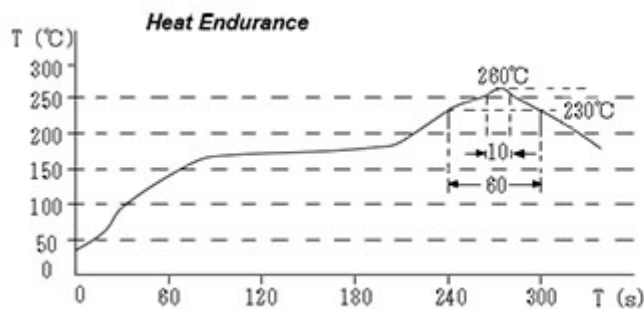
品名	电感值 [within] ( $\mu$ H) ※1	直流电阻 (20°C) [Within] (m $\Omega$ )	饱和电流 (A) Max. (Typ.) ※2	温度上升电流 (A) Max. (Typ.) ※3
CDRH60D45BT150NP-1R0NC	1.00 $\pm$ 30%	11.00 $\pm$ 30%	6.70 (8.50)	4.20 (4.80)
CDRH60D45BT150NP-1R5NC	1.50 $\pm$ 30%	13.00 $\pm$ 30%	5.50 (7.20)	4.00 (4.50)
CDRH60D45BT150NP-2R2NC	2.20 $\pm$ 30%	15.00 $\pm$ 30%	4.20 (5.70)	3.85 (4.10)
CDRH60D45BT150NP-3R3NC	3.30 $\pm$ 30%	18.00 $\pm$ 30%	3.50 (5.00)	3.40 (3.70)
CDRH60D45BT150NP-4R7NC	4.70 $\pm$ 30%	23.00 $\pm$ 30%	3.10 (4.10)	3.00 (3.40)
CDRH60D45BT150NP-6R8NC	6.80 $\pm$ 30%	27.00 $\pm$ 30%	2.50 (3.60)	2.60 (3.10)
CDRH60D45BT150NP-100MC	10.00 $\pm$ 20%	38.00 $\pm$ 20%	2.10 (2.80)	2.40 (2.60)
CDRH60D45BT150NP-150MC	15.00 $\pm$ 20%	64.00 $\pm$ 20%	1.70 (2.30)	1.50 (2.00)
CDRH60D45BT150NP-220MC	22.00 $\pm$ 20%	82.00 $\pm$ 20%	1.40 (1.90)	1.40 (1.70)
CDRH60D45BT150NP-330MC	33.00 $\pm$ 20%	105 $\pm$ 20%	1.10 (1.56)	1.30 (1.60)
CDRH60D45BT150NP-470MC	47.00 $\pm$ 20%	130 $\pm$ 20%	0.97 (1.28)	1.10 (1.40)
CDRH60D45BT150NP-680MC	68.00 $\pm$ 20%	210 $\pm$ 20%	0.81 (1.07)	0.85 (1.10)
CDRH60D45BT150NP-101MC	100 $\pm$ 20%	340 $\pm$ 20%	0.61 (0.90)	0.72 (0.86)
CDRH60D45BT150NP-151MC	150 $\pm$ 20%	480 $\pm$ 20%	0.53 (0.74)	0.60 (0.72)
CDRH60D45BT150NP-221MC	220 $\pm$ 20%	720 $\pm$ 20%	0.47 (0.62)	0.48 (0.57)
CDRH60D45BT150NP-331MC	330 $\pm$ 20%	970 $\pm$ 20%	0.36 (0.50)	0.40 (0.49)
CDRH60D45BT150NP-471MC	470 $\pm$ 20%	1440 $\pm$ 20%	0.28 (0.39)	0.38 (0.46)

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

### 回流焊耐热与推荐温度曲线图



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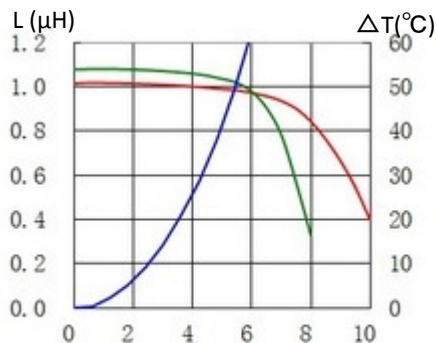
## CDRH60D45B/T150



### 直流饱和电流&温度上升曲线图

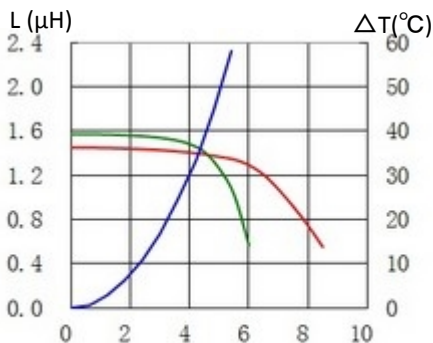
— L (20°C)    — L (150°C)    —  $\Delta T$

1. CDRH60D45BT150NP-1R0NC



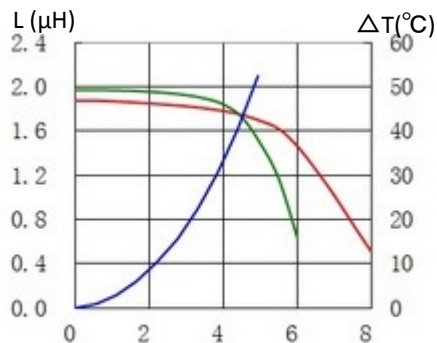
DC(A)

2. CDRH60D45BT150NP-1R5NC



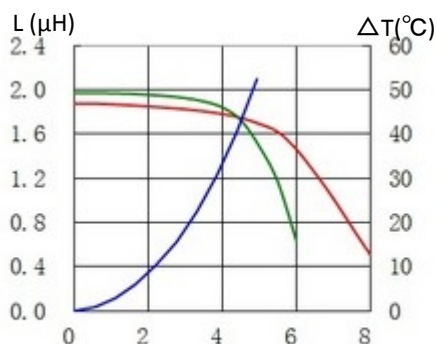
DC(A)

3. CDRH60D45BT150NP-2R2NC



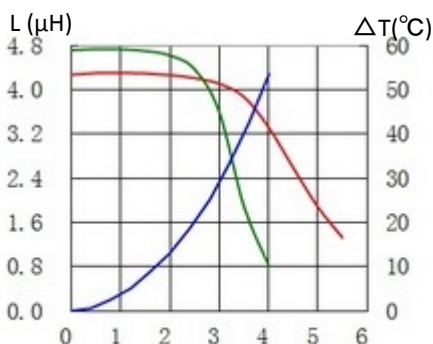
DC(A)

4. CDRH60D45BT150NP-3R3NC



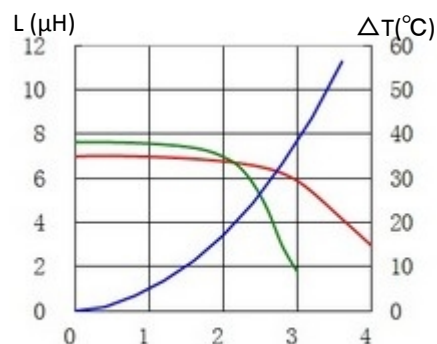
DC(A)

5. CDRH60D45BT150NP-4R7NC



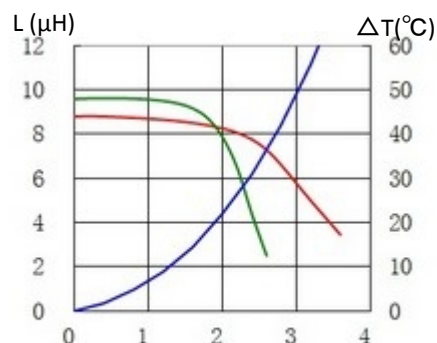
DC(A)

6. CDRH60D45BT150NP-6R8NC



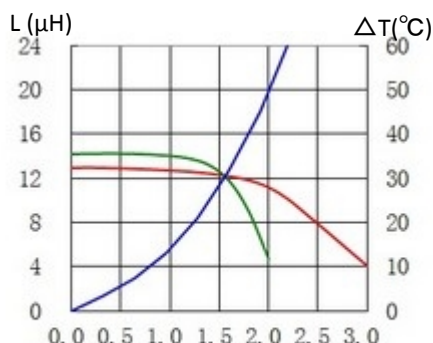
DC(A)

7. CDRH60D45BT150NP-100MC



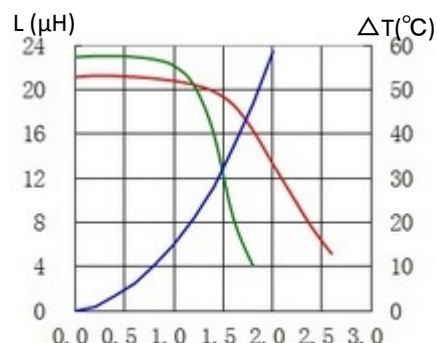
DC(A)

8. CDRH60D45BT150NP-150MC



DC(A)

9. CDRH60D45BT150NP-220MC



DC(A)

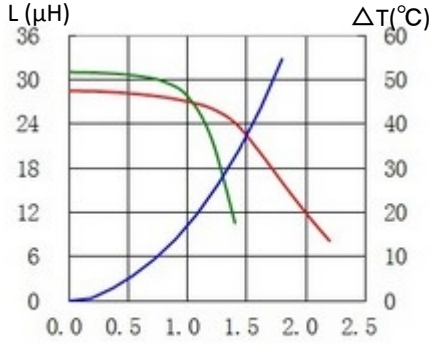
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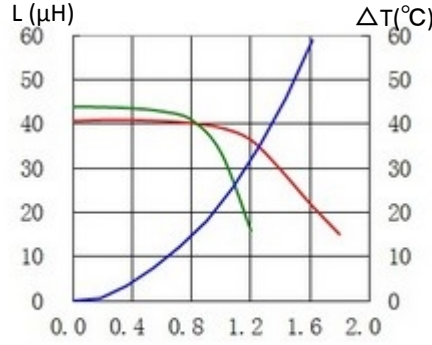


10. CDRH60D45BT150NP-330MC



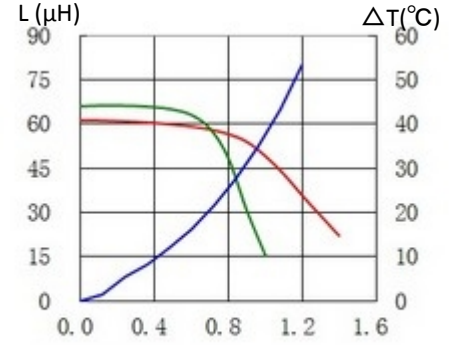
DC(A)

11. CDRH60D45BT150NP-470MC



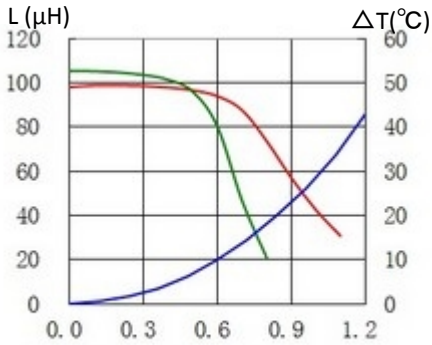
DC(A)

12. CDRH60D45BT150NP-680MC



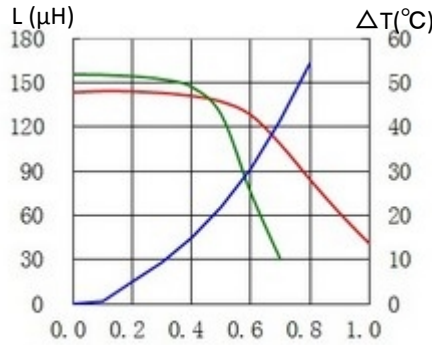
DC(A)

13. CDRH60D45BT150NP-101MC



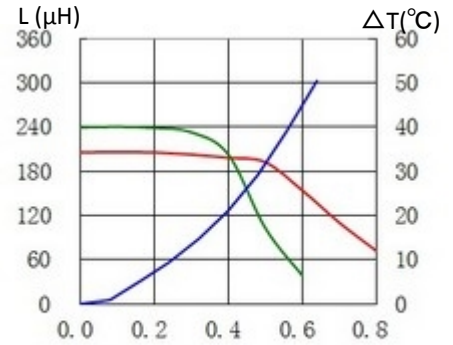
DC(A)

14. CDRH60D45BT150NP-151MC



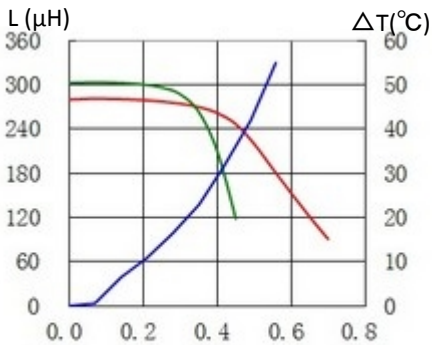
DC(A)

15. CDRH60D45BT150NP-221MC



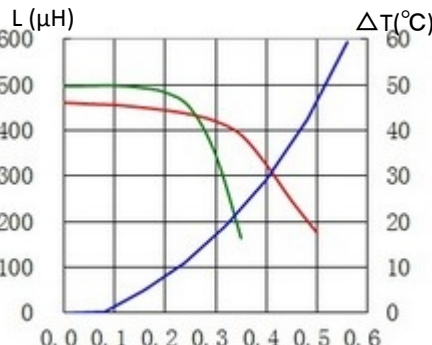
DC(A)

16. CDRH60D45BT150NP-331MC



DC(A)

17. CDRH60D45BT150NP-471MC



DC(A)



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