

SMD Power Inductor

CDRCH12D78BT150



特点

- Ferrite drum core construction
- Magnetically shielded
- Qualification to AEC-Q200
- L×W×H:12.5×12.5×8.2mm Max.
- Product weight: 4.1 g (Ref.)
- Moisture Sensitivity Level: 1



环境规格

- Operating Temperature: -40°C to +150°C (including self-heating)
- Storage temperature range: -40° C~+150° C

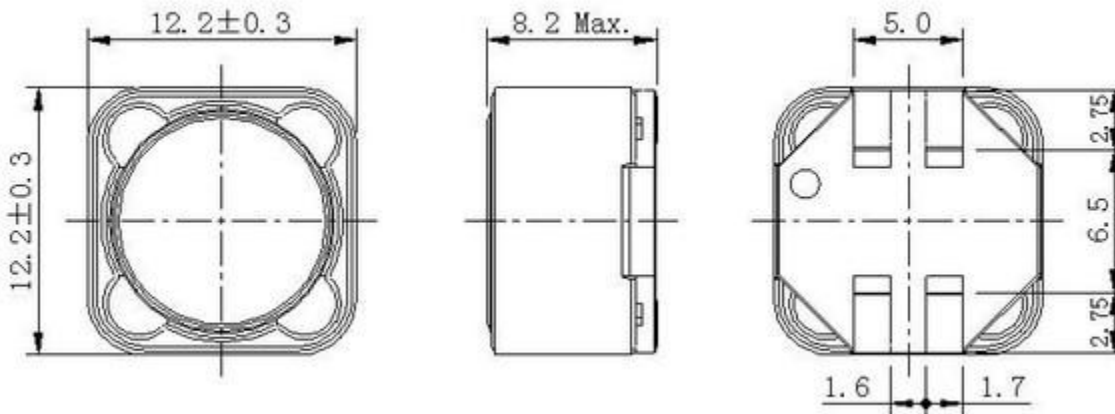
包装

- Carrier tape and reel packaging
- 350pcs per reel

用途

- Automotive Sepic & Zeta converter

外形尺寸 - [mm]



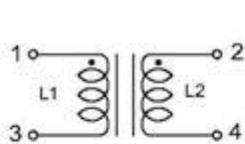
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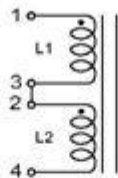
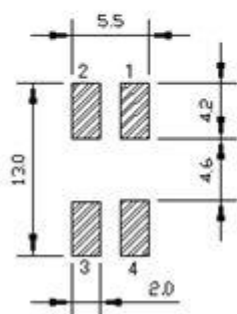


推荐焊盘尺寸 - [mm]

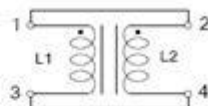
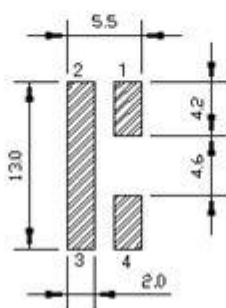
(1) Single winding (2) Leads connected in series (3) Leads connected in parallel



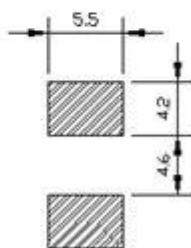
(1)



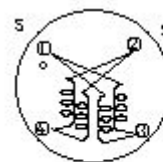
(2)



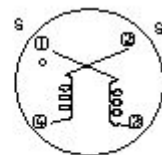
(3)



接线图 (底面)



(4.7 μ H ~ 22 μ H)



(33 μ H ~ 470 μ H)



电气特性规格

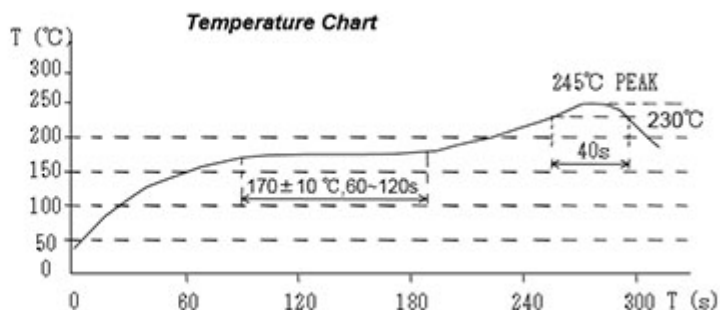
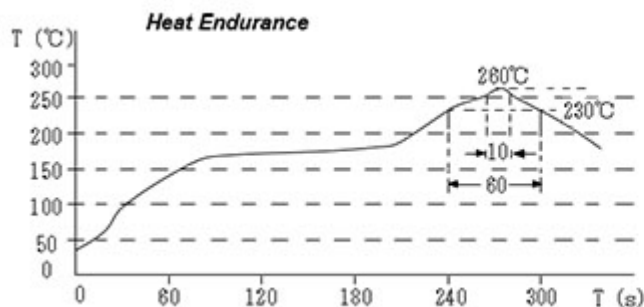
品名	电感值 [within] (μ H) ※1	直流电阻 (20℃) Max. (Typ.) (m Ω)	饱和电流 (A) Max. (Typ.) ※2		温度上升电流 (A) Max. (Typ.) ※3
			20℃	150℃	
CDRCH12D78BT150NP-4R7NC (single winding)	4.70 \pm 30%	44.00 (35.00)	12.80 (15.00)	(12.10)	3.50 (4.10)
CDRCH12D78BT150NP-6R8NC (single winding)	6.80 \pm 30%	55.00 (44.00)	11.00 (13.20)	(10.00)	3.20 (3.70)
CDRCH12D78BT150NP-100MC (single winding)	10.00 \pm 20%	70.00 (56.00)	9.60 (11.20)	(8.40)	2.90 (3.40)
CDRCH12D78BT150NP-150MC (single winding)	15.00 \pm 20%	79.00 (63.00)	8.00 (9.40)	(7.30)	2.70 (3.10)
CDRCH12D78BT150NP-220MC (single winding)	22.00 \pm 20%	113 (90.00)	6.40 (7.60)	(6.00)	2.20 (2.60)
CDRCH12D78BT150NP-330MC (single winding)	33.00 \pm 20%	180 (144)	5.40 (6.40)	(4.70)	1.70 (2.10)
CDRCH12D78BT150NP-470MC (single winding)	48.00 \pm 20%	216 (173)	4.40 (5.20)	(4.10)	1.40 (1.70)
CDRCH12D78BT150NP-680MC (single winding)	68.00 \pm 20%	312 (250)	3.60 (4.40)	(3.20)	1.20 (1.50)
CDRCH12D78BT150NP-101MC (single winding)	100 \pm 20%	433 (347)	3.00 (3.60)	(2.60)	1.00 (1.25)
CDRCH12D78BT150NP-151MC (single winding)	150 \pm 20%	718 (575)	2.50 (3.00)	(2.10)	0.70 (0.90)
CDRCH12D78BT150NP-221MC (single winding)	220 \pm 20%	1070 (853)	2.00 (2.40)	(1.80)	0.65 (0.78)
CDRCH12D78BT150NP-331MC (single winding)	330 \pm 20%	1550 (1240)	1.60 (2.00)	(1.50)	0.56 (0.63)
CDRCH12D78BT150NP-471MC (single winding)	470 \pm 20%	2310 (1850)	1.40 (1.60)	(1.10)	0.42 (0.50)

※1 Measuring frequency at 100kHz, 0.1V.

※2 Saturation current: The value of D.C. current when the inductance becomes 30% lower than its initial value.

※3 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



注：记载内容如有变更，恕不另行通知。订货时请联系您最近的销售办事处以获取最新产品信息。

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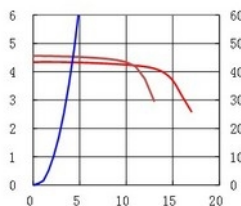


直流饱和电流&温度上升曲线图

— L (20°C) — L (150°C) — ΔT

1. CDRCH12D78BT150NP-4R7NC
(single winding)

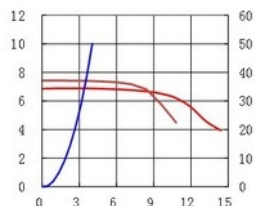
L (μ H) ΔT (°C)



DC(A)

2. CDRCH12D78BT150NP-6R8NC
(single winding)

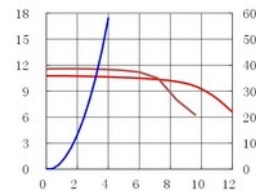
L (μ H) ΔT (°C)



DC(A)

3. CDRCH12D78BT150NP-100MC
(single winding)

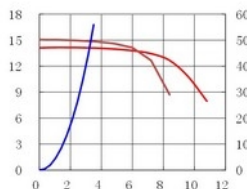
L (μ H) ΔT (°C)



DC(A)

4. CDRCH12D78BT150NP-150MC
(single winding)

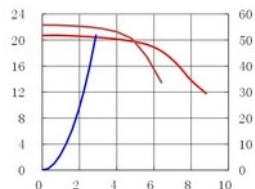
L (μ H) ΔT (°C)



DC(A)

5. CDRCH12D78BT150NP-220MC
(single winding)

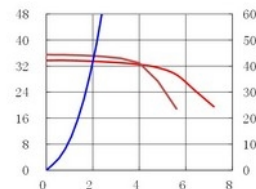
L (μ H) ΔT (°C)



DC(A)

6. CDRCH12D78BT150NP-330MC
(single winding)

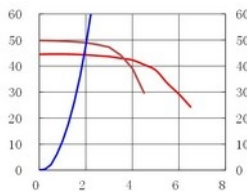
L (μ H) ΔT (°C)



DC(A)

7. CDRCH12D78BT150NP-470MC
(single winding)

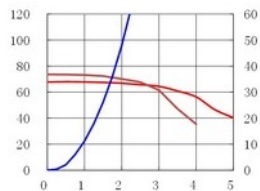
L (μ H) ΔT (°C)



DC(A)

8. CDRCH12D78BT150NP-680MC
(single winding)

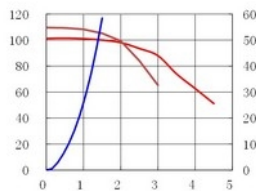
L (μ H) ΔT (°C)



DC(A)

9. CDRCH12D78BT150NP-101MC
(single winding)

L (μ H) ΔT (°C)



DC(A)

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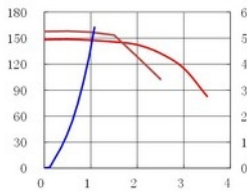
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10. CDRCH12D78BT150NP-151MC
(single winding)

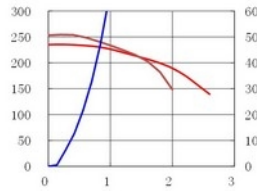
L (μH) ΔT(°C)



DC(A)

11. CDRCH12D78BT150NP-221MC
(single winding)

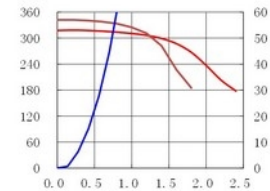
L (μH) ΔT(°C)



DC(A)

12. CDRCH12D78BT150NP-331MC
(single winding)

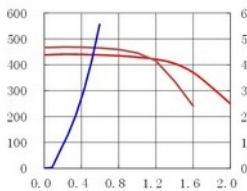
L (μH) ΔT(°C)



DC(A)

13. CDRCH12D78BT150NP-471MC
(single winding)

L (μH) ΔT(°C)



DC(A)



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