

SMD Power Inductor

CDRH127/L125



Recommended Type

Description

- Ferrite drum core construction
- Magnetically shielded
- LxWxH: 12.3x12.3 x8.0 mm Max.
- Product weight: 4.1g(Ref.)
- Moisture Sensitivity Level: 1
- Qualified to AEC-Q200



Environmental Data

- Operating Temperature: -40°C to +125°C (including self-heating)
- Storage temperature range: -40°C~+125°C

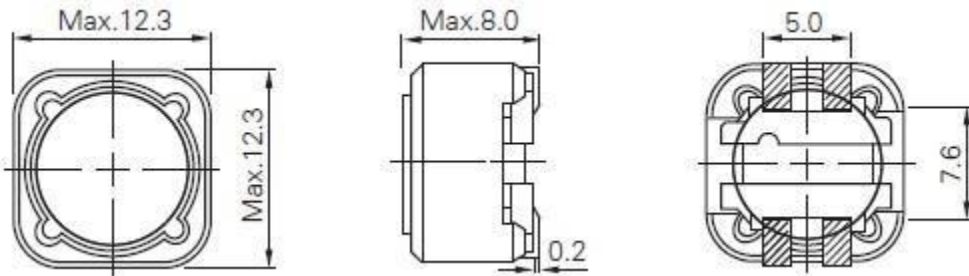
Packaging

- Carrier tape and reel packaging

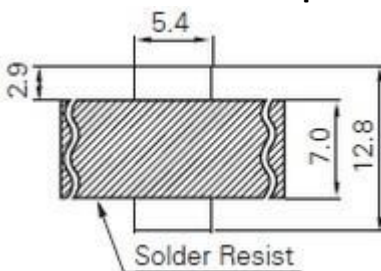
Applications

- High temp and high reliability automotive applications

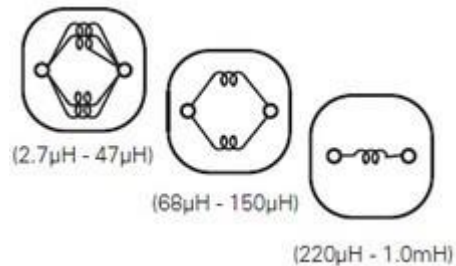
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



No vias and traces in the restricted area underneath the coil

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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
CDRH127L125NP-2R7NC	2.70 \pm 30%	9.70 (7.50)	15.50 (19.20)	9.00 (10.20)
CDRH127L125NP-3R6NC	3.60 \pm 30%	11.00 (8.50)	13.80 (16.10)	8.30 (9.70)
CDRH127L125NP-4R7NC	4.70 \pm 30%	13.00 (10.00)	12.30 (14.50)	7.80 (9.00)
CDRH127L125NP-6R2NC	6.20 \pm 30%	14.60 (11.30)	10.20 (12.30)	7.50 (8.60)
CDRH127L125NP-7R5NC	7.50 \pm 30%	16.30 (12.60)	9.20 (11.30)	7.00 (8.10)
CDRH127L125NP-100MC	10.00 \pm 20%	23.60 (18.20)	8.40 (10.10)	6.00 (7.10)
CDRH127L125NP-150MC	15.00 \pm 20%	26.20 (20.20)	6.40 (8.00)	5.60 (6.60)
CDRH127L125NP-220MC	22.00 \pm 20%	36.70 (28.30)	5.60 (6.70)	4.60 (5.40)
CDRH127L125NP-330MC	33.00 \pm 20%	53.00 (40.80)	4.30 (5.50)	3.80 (4.40)
CDRH127L125NP-470MC	47.00 \pm 20%	83.20 (64.00)	3.90 (4.70)	3.10 (3.60)
CDRH127L125NP-680MC	68.00 \pm 20%	111.50 (85.80)	3.10 (3.80)	2.60 (2.97)
CDRH127L125NP-101MC	100 \pm 20%	171.20 (13.17)	2.60 (3.10)	2.00 (2.35)
CDRH127L125NP-151MC	150 \pm 20%	236 (182)	2.10 (2.53)	1.80 (2.07)
CDRH127L125NP-221MC	220 \pm 20%	347 (267)	1.75 (2.10)	1.40 (1.62)
CDRH127L125NP-331MC	330 \pm 20%	478 (382)	1.42 (1.72)	1.18 (1.32)
CDRH127L125NP-471MC	470 \pm 20%	731 (585)	1.20 (1.46)	0.95 (1.12)
CDRH127L125NP-681MC	680 \pm 20%	1102 (882)	0.98 (1.21)	0.75 (0.91)
CDRH127L125NP-102MC	1000 \pm 20%	1495 (1196)	0.83 (1.00)	0.64 (0.76)

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of its nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

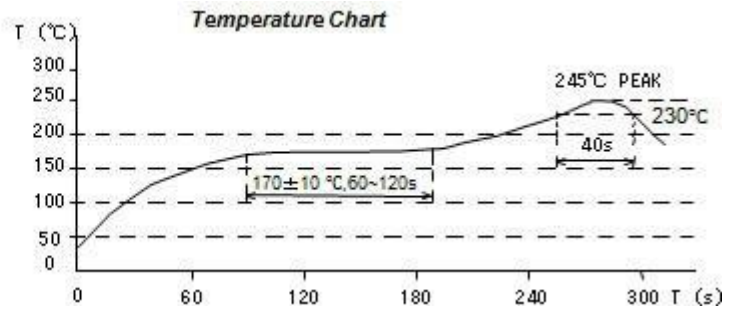
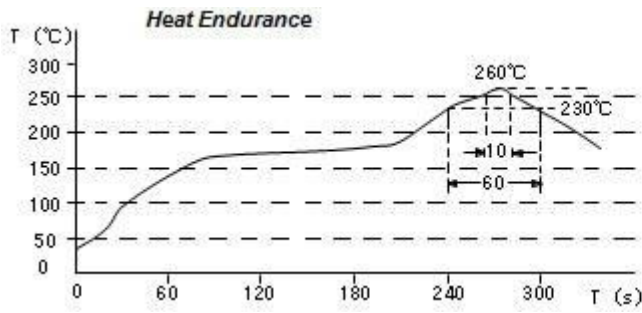
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Solder Reflow Condition



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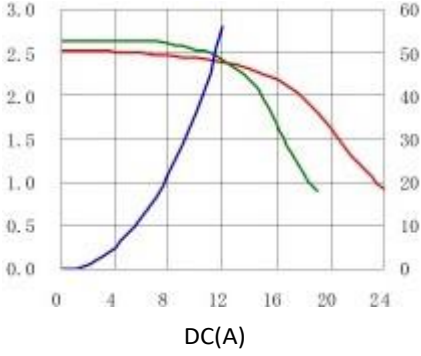
Recommended Type

Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT

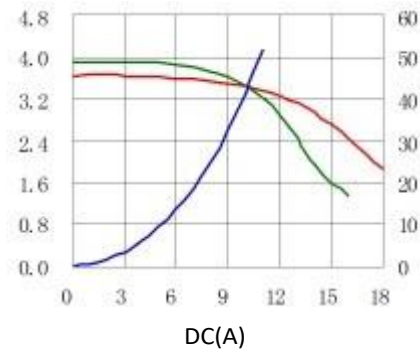
1. CDRH127L125NP-2R7NC

L (μH) $\Delta T(^{\circ}\text{C})$



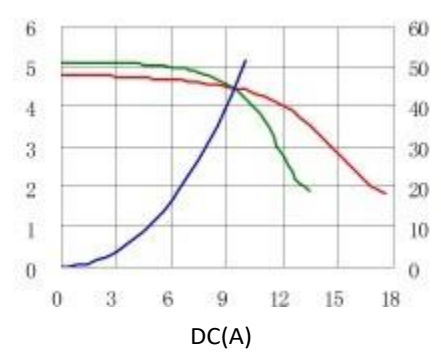
2. CDRH127L125NP-3R6NC

L (μH) $\Delta T(^{\circ}\text{C})$



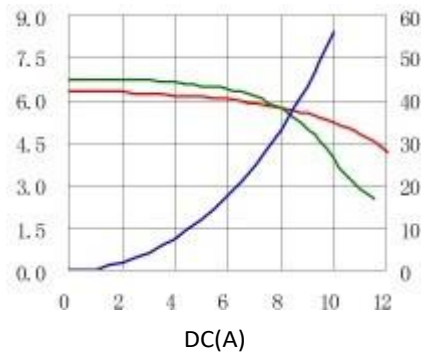
3. CDRH127L125NP-4R7NC

L (μH) $\Delta T(^{\circ}\text{C})$



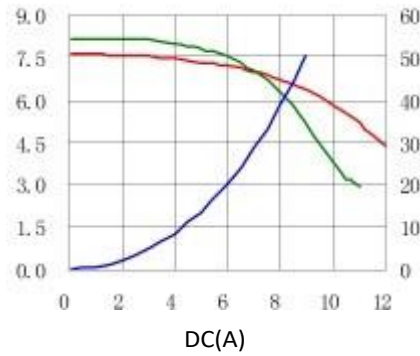
4. CDRH127L125NP-6R2NC

L (μH) $\Delta T(^{\circ}\text{C})$



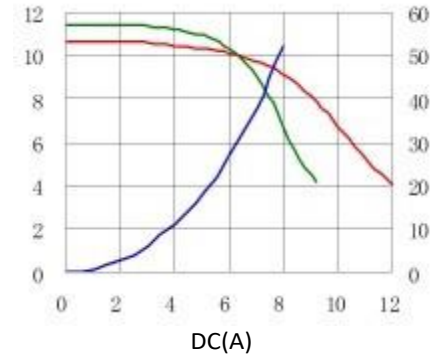
5. CDRH127L125NP-7R5NC

L (μH) $\Delta T(^{\circ}\text{C})$



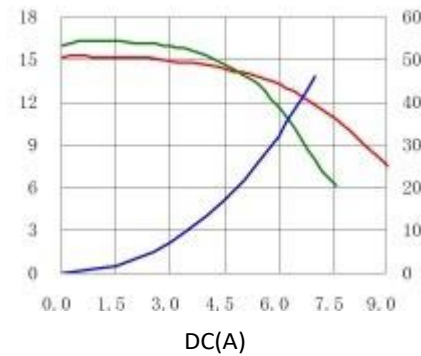
6. CDRH127L125NP-100MC

L (μH) $\Delta T(^{\circ}\text{C})$



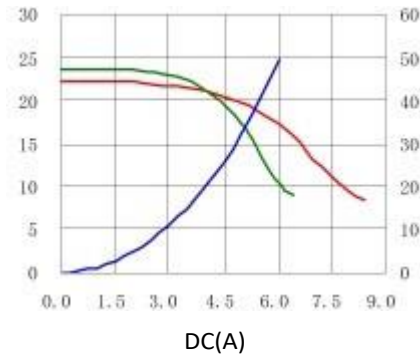
7. CDRH127L125NP-150MC

L (μH) $\Delta T(^{\circ}\text{C})$



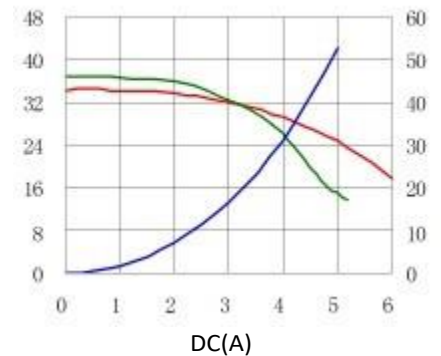
8. CDRH127L125NP-220MC

L (μH) $\Delta T(^{\circ}\text{C})$



9. CDRH127L125NP-330MC

L (μH) $\Delta T(^{\circ}\text{C})$



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

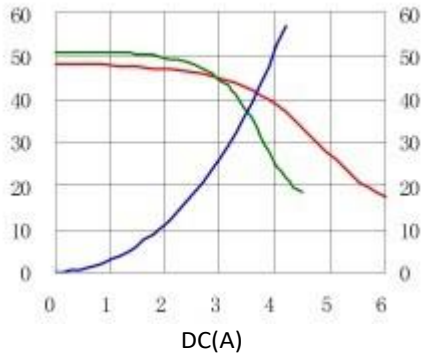
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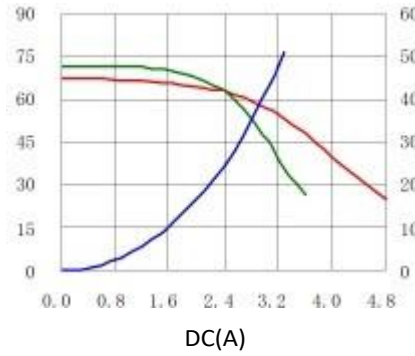
10. CDRH127L125NP-470MC

L (μH) $\Delta\text{T}(\text{°C})$



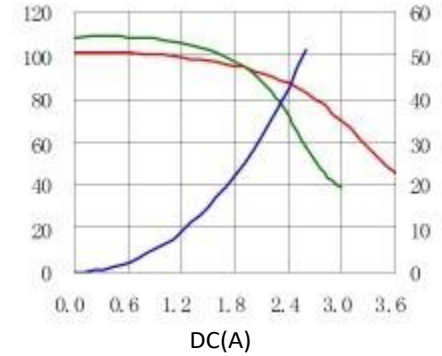
11. CDRH127L125NP-680MC

L (μH) $\Delta\text{T}(\text{°C})$



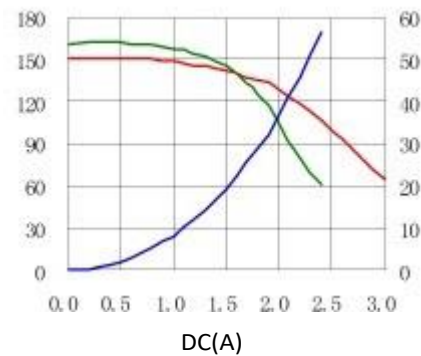
12. CDRH127L125NP-101MC

L (μH) $\Delta\text{T}(\text{°C})$



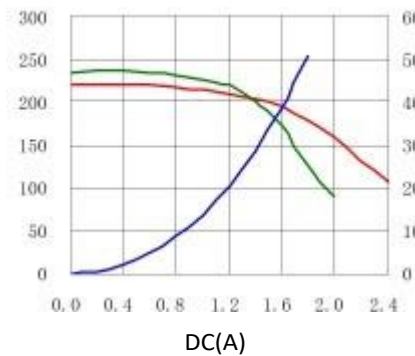
13. CDRH127L125NP-151MC

L (μH) $\Delta\text{T}(\text{°C})$



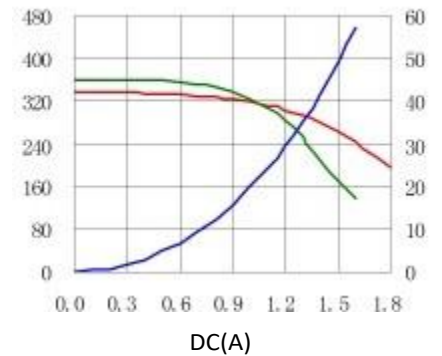
14. CDRH127L125NP-221MC

L (μH) $\Delta\text{T}(\text{°C})$



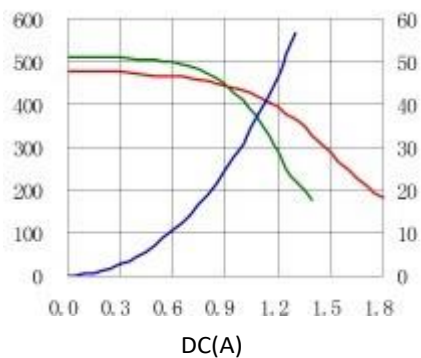
15. CDRH127L125NP-331MC

L (μH) $\Delta\text{T}(\text{°C})$



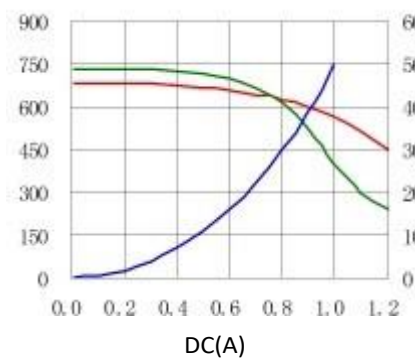
16. CDRH127L125NP-471MC

L (μH) $\Delta\text{T}(\text{°C})$



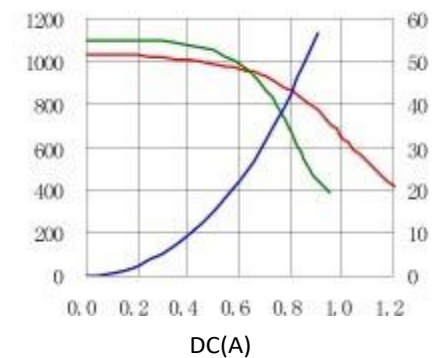
17. CDRH127L125NP-681MC

L (μH) $\Delta\text{T}(\text{°C})$



18. CDRH127L125NP-102MC

L (μH) $\Delta\text{T}(\text{°C})$



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