SMD Power Inductor

CDRH104R/T125

Recommended Type

Description

- Ferrite drum core construction
- Magnetically shielded
- L×W×H:10.5×10.3 ×4.0 mm Max.
- Product weight: 1.5g(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℃～+125℃

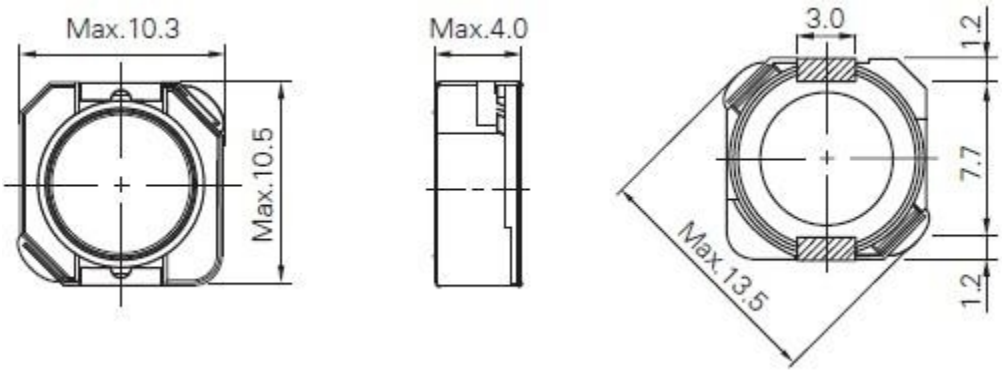
Packaging

- Carrier tape and reel packaging

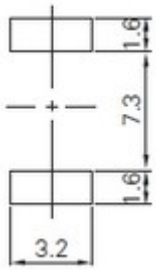
Applications

- High temp and high reliability automotive applications

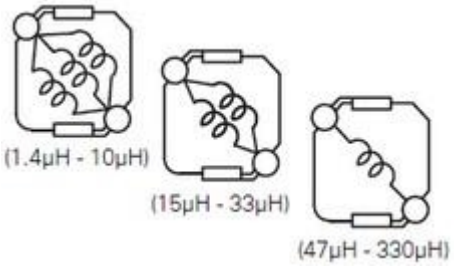
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

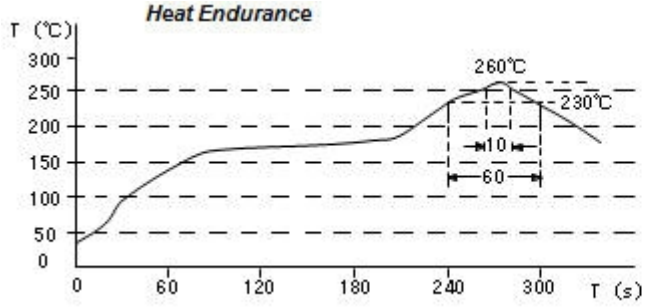
Part Number	Inductance [Within] (μH) ※1	D.C.R. at 20℃ Max.(Typ.) (mΩ)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDRH104RT125NP-1R4PC	1.40 ± 25%	9.00 (7.20)	9.20 (11.70)	7.80 (8.80)
CDRH104RT125NP-2R2PC	2.20 ± 25%	11.00 (8.80)	8.00 (10.10)	7.10 (8.10)
CDRH104RT125NP-3R6PC	3.60 ± 25%	14.00 (11.20)	6.07 (8.30)	6.20 (7.10)
CDRH104RT125NP-4R7PC	4.70 ± 25%	19.10 (15.30)	5.57 (7.40)	5.20 (5.80)
CDRH104RT125NP-6R8PC	6.80 ± 25%	25.60 (20.50)	4.66 (5.80)	4.40 (5.00)
CDRH104RT125NP-100MC	10.00 ± 20%	36.80 (29.50)	4.10 (5.40)	3.50 (3.80)
CDRH104RT125NP-150MC	15.00 ± 20%	48.10 (38.50)	3.34 (4.00)	2.90 (3.30)
CDRH104RT125NP-220MC	22.00 ± 20%	70.00 (56.00)	2.56 (3.15)	2.30 (2.65)
CDRH104RT125NP-330MC	33.00 ± 20%	93.80 (75.00)	2.14 (2.60)	2.05 (2.36)
CDRH104RT125NP-470MC	47.00 ± 20%	136 (109)	1.80 (2.17)	1.68 (1.90)
CDRH104RT125NP-680MC	68.00 ± 20%	216 (173)	1.57 (1.82)	1.25 (1.42)
CDRH104RT125NP-101MC	100 ± 20%	300 (240)	1.30 (1.58)	1.05 (1.20)
CDRH104RT125NP-151MC	150 ± 20%	448 (358)	1.00 (1.25)	0.86 (1.00)
CDRH104RT125NP-221MC	220 ± 20%	694 (555)	0.85 (1.06)	0.68 (0.78)
CDRH104RT125NP-331MC	330 ± 20%	1060 (850)	0.70 (0.83)	0.56 (0.63)

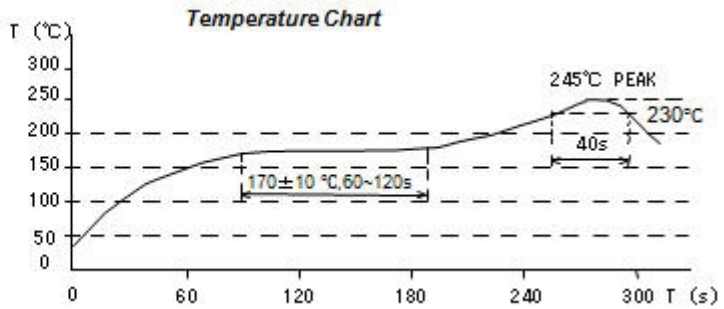
※1.Inductance measuring condition: at 100kHz.

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

※3.Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

Solder Reflow Condition





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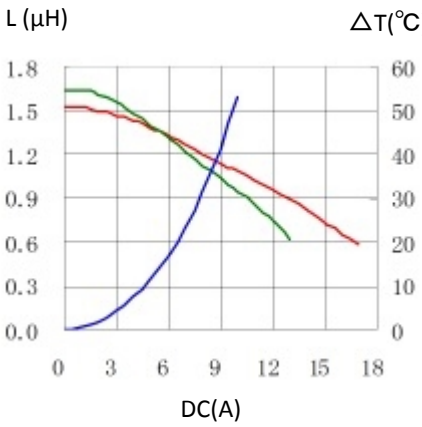
CDRH104R/T125

Recommended Type

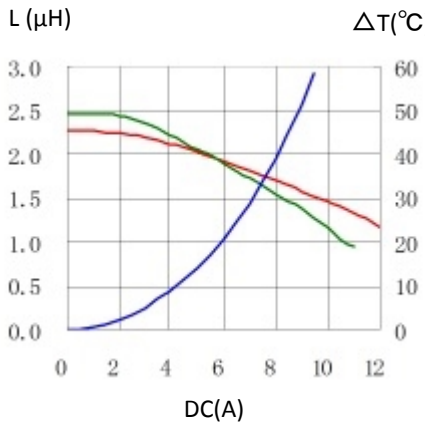
Saturation Current & Temperature Rise Graph

L (20°C) L (125°C) ΔT

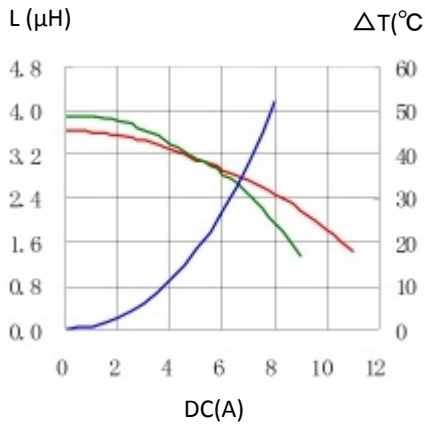
1. CDRH104RT125NP-1R4PC



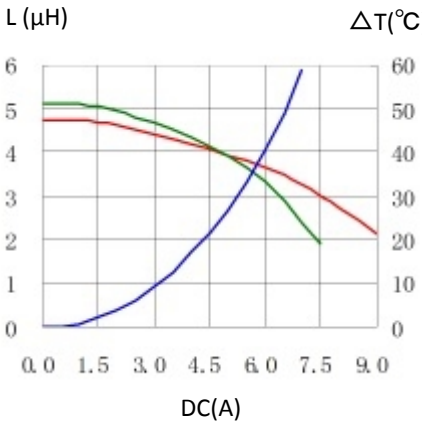
2. CDRH104RT125NP-2R2PC



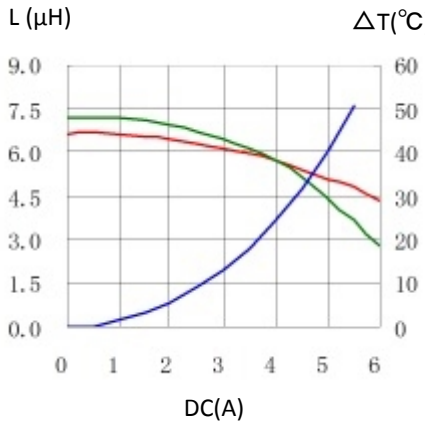
3. CDRH104RT125NP-3R6PC



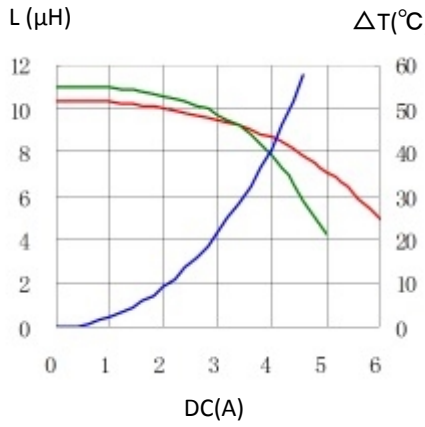
4. CDRH104RT125NP-4R7PC



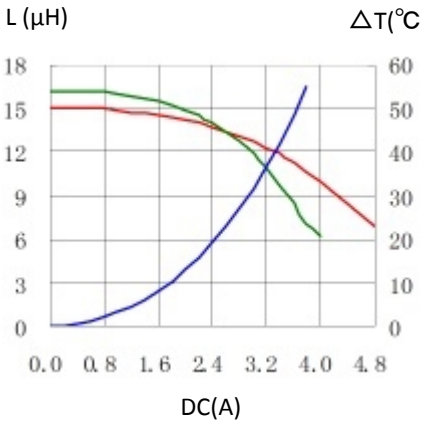
5. CDRH104RT125NP-6R8PC



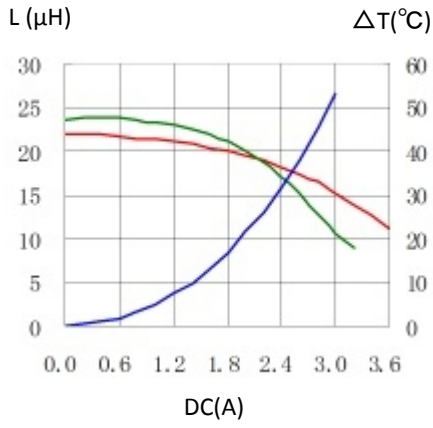
6. CDRH104RT125NP-100MC



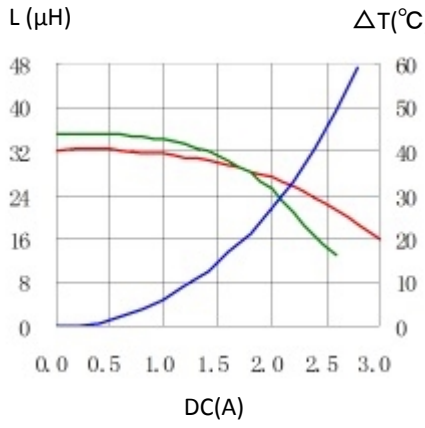
7. CDRH104RT125NP-150MC



8. CDRH104RT125NP-220MC



9. CDRH104RT125NP-330MC



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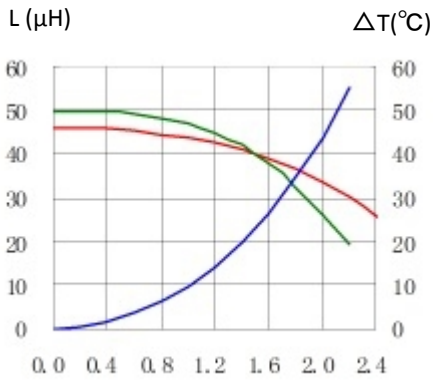
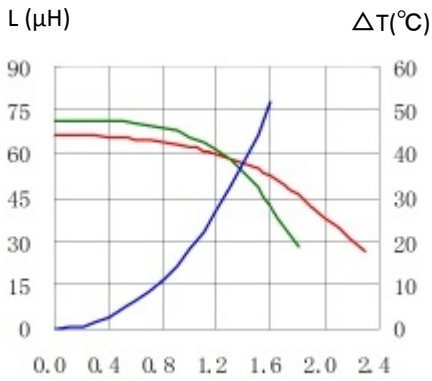
CDRH104R/T125

Recommended Type

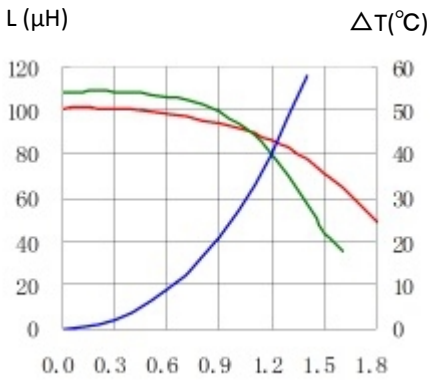
10. CDRH104RT125NP-470MC



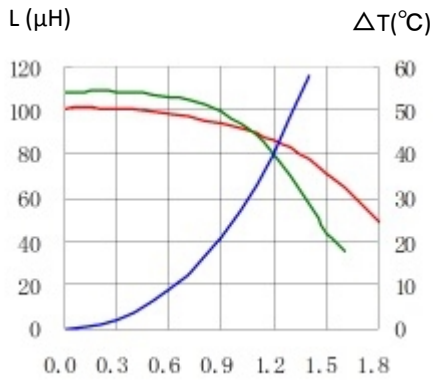
11. CDRH104RT125NP-680MC



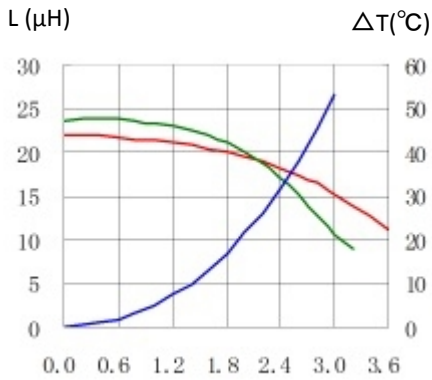
12. CDRH104RT125NP-101MC



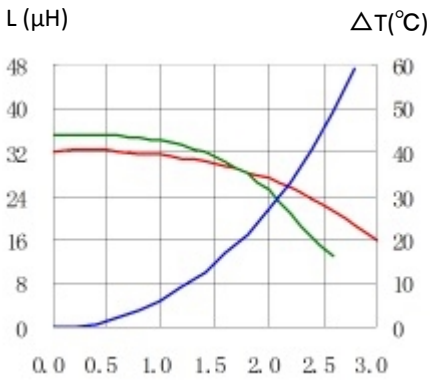
13. CDRH104RT125NP-151MC



14. CDRH104RT125NP-221MC



15. CDRH104RT125NP-331MC



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