

SMD Power Inductor

CDRR126



Description

- Ferrite drum core construction
- Magnetically shielded
- LxWxH: 12.8x12.8x6.8 mm Max.
- Product weight: 2.9 g(Ref.)
- Moisture Sensitivity Level: 1
- Qualification to AEC-Q200



Environmental Data

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

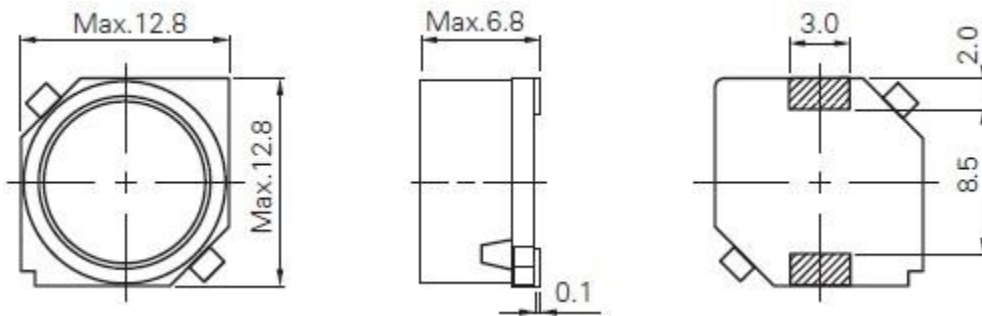
Packaging

- Carrier tape and reel packaging

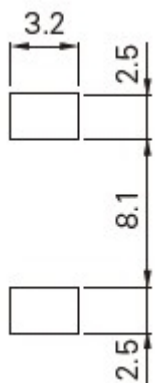
Applications

- High temp and high reliability automotive applications

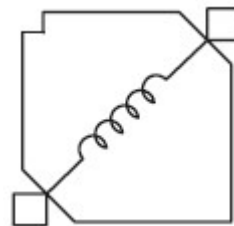
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection





Electrical Characteristics

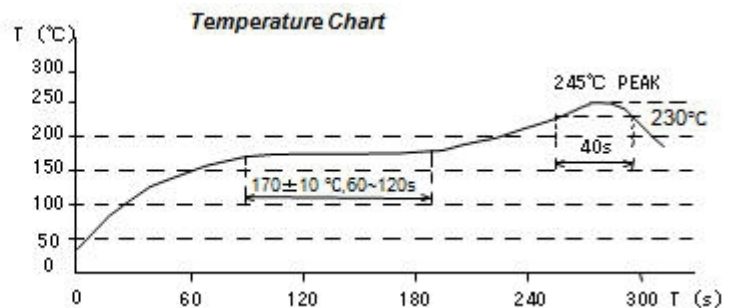
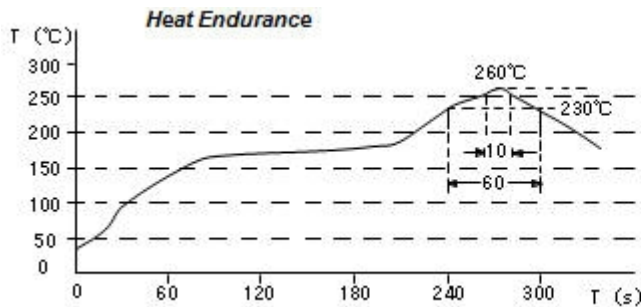
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2		Temperature Rise Current (A) Max.(Typ.) ※3
			20°C	105°C	
CDRR126NP-7R0NC	7.00 \pm 30%	28.00 (22.00)	5.00 (6.25)	3.84 (4.80)	4.62 (5.30)
CDRR126NP-100MC	10.00 \pm 20%	33.00 (26.00)	4.30 (5.38)	3.32 (4.15)	4.18 (4.70)
CDRR126NP-150MC	15.00 \pm 20%	38.00 (30.00)	3.68 (4.60)	2.87 (3.59)	3.73 (4.25)
CDRR126NP-220MC	22.00 \pm 20%	45.00 (36.00)	3.08 (3.85)	2.26 (2.82)	3.30 (3.80)
CDRR126NP-330MC	33.00 \pm 20%	66.00 (53.00)	2.28 (2.85)	1.76 (2.20)	2.65 (3.20)
CDRR126NP-470MC	47.00 \pm 20%	80.00 (64.00)	2.08 (2.60)	1.56 (1.95)	2.52 (2.86)
CDRR126NP-680MC	68.00 \pm 20%	118 (95.00)	1.68 (2.10)	1.28 (1.60)	2.00 (2.30)
CDRR126NP-101MC	100 \pm 20%	166 (133)	1.36 (1.70)	1.03 (1.29)	1.60 (1.83)
CDRR126NP-151MC	150 \pm 20%	234 (187)	1.10 (1.37)	0.83 (1.04)	1.33 (1.53)
CDRR126NP-221MC	220 \pm 20%	371 (297)	0.90 (1.12)	0.71 (0.89)	1.09 (1.22)
CDRR126NP-331MC	330 \pm 20%	538 (430)	0.77 (0.96)	0.61 (0.76)	0.88 (1.00)

※1. Inductance measuring condition: at 1kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of its nominal value.

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

Solder Reflow Condition



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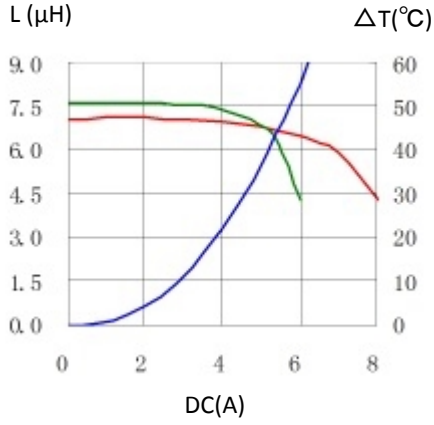
CDRR126



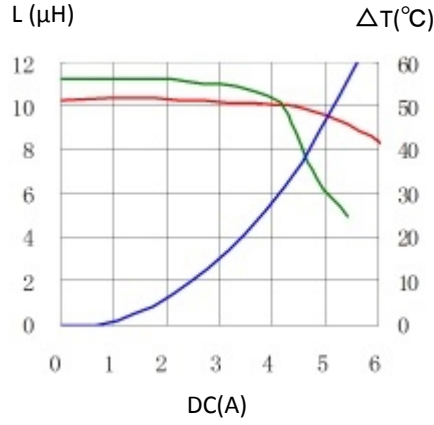
Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT

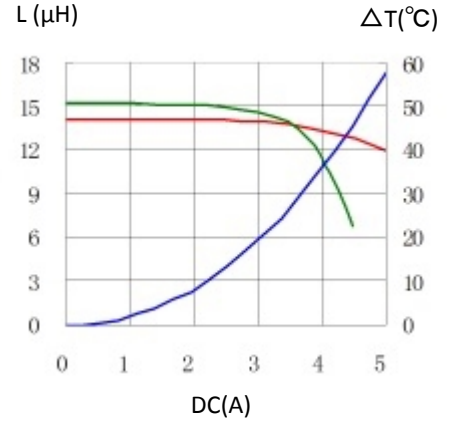
1. CDRR126NP-7R0NC



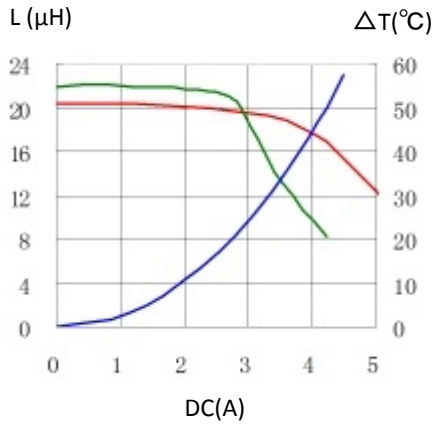
2. CDRR126NP-100MC



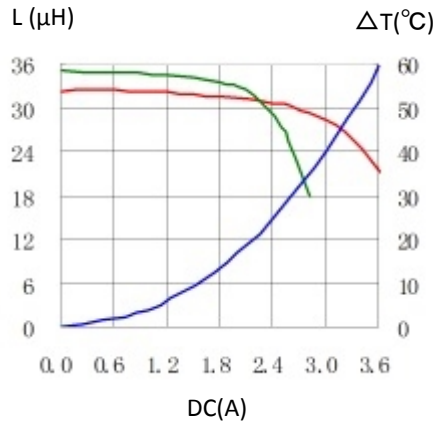
3. CDRR126NP-150MC



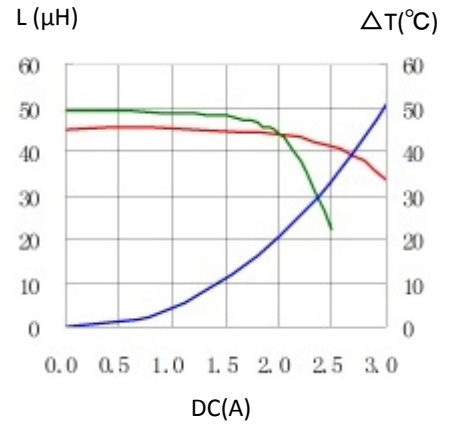
4. CDRR126NP-220MC



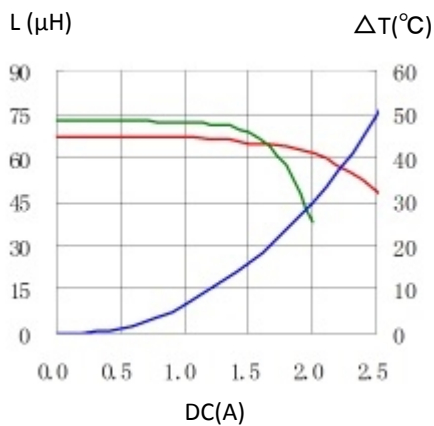
5. CDRR126NP-330MC



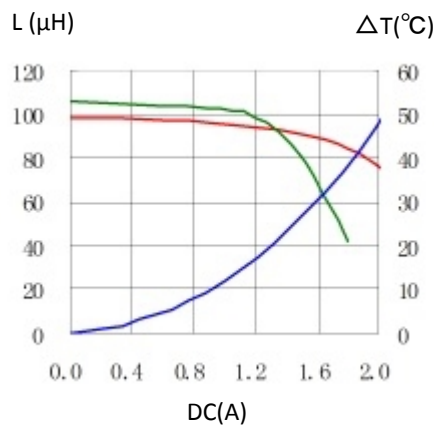
6. CDRR126NP-470MC



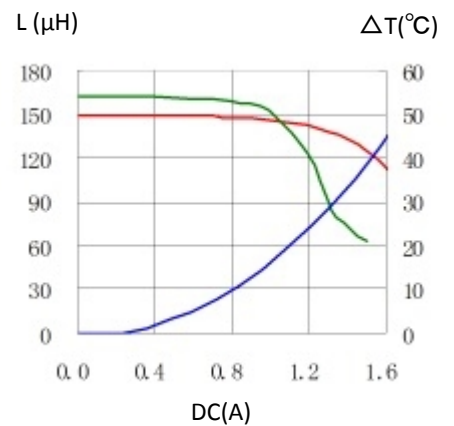
7. CDRR126NP-680MC



8. CDRR126NP-101MC



9. CDRR126NP-151MC



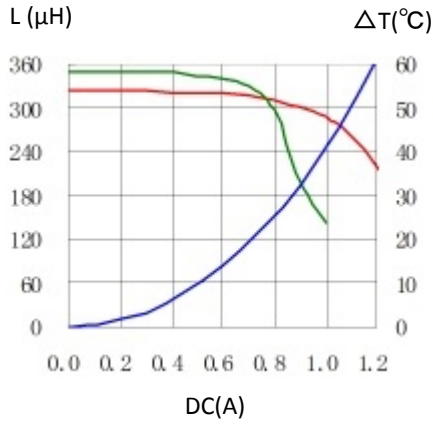
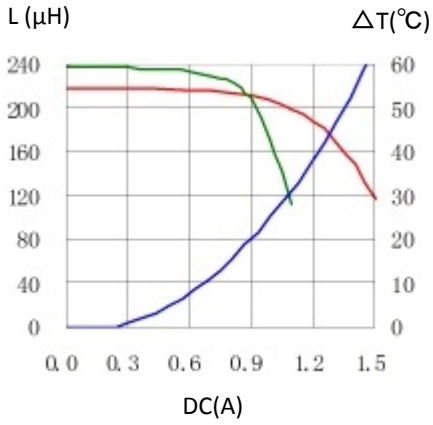
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10. CDRR126NP-221MC

11. CDRR126NP-331MC



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