

# SMD Power Inductor CDRR126



Halogen  
Free



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.8 × 12.8 × 6.8 mm Max.
- Product weight: 2.9 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Environmental Data

- Operating temperature range: -40°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+125°C
- Solder reflow temperature: 260 °C peak.

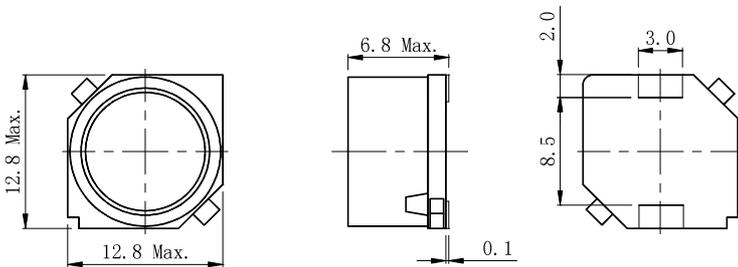
## Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 500pcs per reel

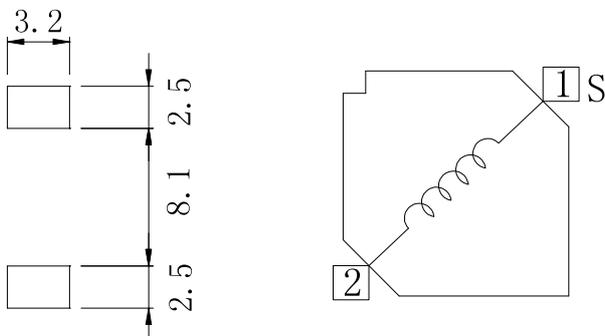
## Applications

- For consumer electronics :DVD player, person computer, LCD display, etc.
- For automotive: ABS, SRS airbag, HID/LED, car audio, car navigation, LCD display, etc.

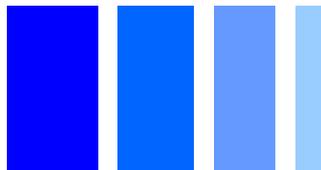
## Dimension - [mm]



## Land pattern and Schematics - [mm]



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## Electrical Characteristics

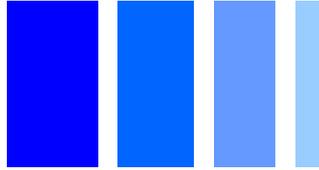
Part No.	Stamp	Inductance [Within] ※1	D.C.R. (Ω) [Max.] (Typ.) (at 20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at 25°C)	(at 125°C)	
CDRR126NP-7R0NC	7R0	7.0 μH ± 30%	28m(22m)	5.00(6.25)	3.84(4.80)	4.62(5.30)
CDRR126NP-100MC	100	10 μH ± 20%	33m(26m)	4.30(5.38)	3.32(4.15)	4.18(4.70)
CDRR126NP-150MC	150	15 μH ± 20%	38m(30m)	3.68(4.60)	2.87(3.59)	3.73(4.25)
CDRR126NP-220MC	220	22 μH ± 20%	45m(36m)	3.08(3.85)	2.26(2.82)	3.30(3.80)
CDRR126NP-330MC	330	33 μH ± 20%	66m(53m)	2.28(2.85)	1.76(2.20)	2.65(3.20)
CDRR126NP-470MC	470	47 μH ± 20%	80m(64m)	2.08(2.60)	1.56(1.95)	2.52(2.86)
CDRR126NP-680MC	680	68 μH ± 20%	0.118(95m)	1.68(2.10)	1.28(1.60)	2.00(2.30)
CDRR126NP-101MC	101	100 μH ± 20%	0.166(0.133)	1.36(1.70)	1.03(1.29)	1.60(1.83)
CDRR126NP-151MC	151	150 μH ± 20%	0.234(0.187)	1.10(1.37)	0.83(1.04)	1.33(1.53)
CDRR126NP-221MC	221	220 μH ± 20%	0.371(0.297)	0.90(1.12)	0.71(0.89)	1.09(1.22)
CDRR126NP-331MC	331	330 μH ± 20%	0.538(0.430)	0.77(0.96)	0.61(0.76)	0.88(1.00)

※1. Measuring condition: at 1kHz.

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

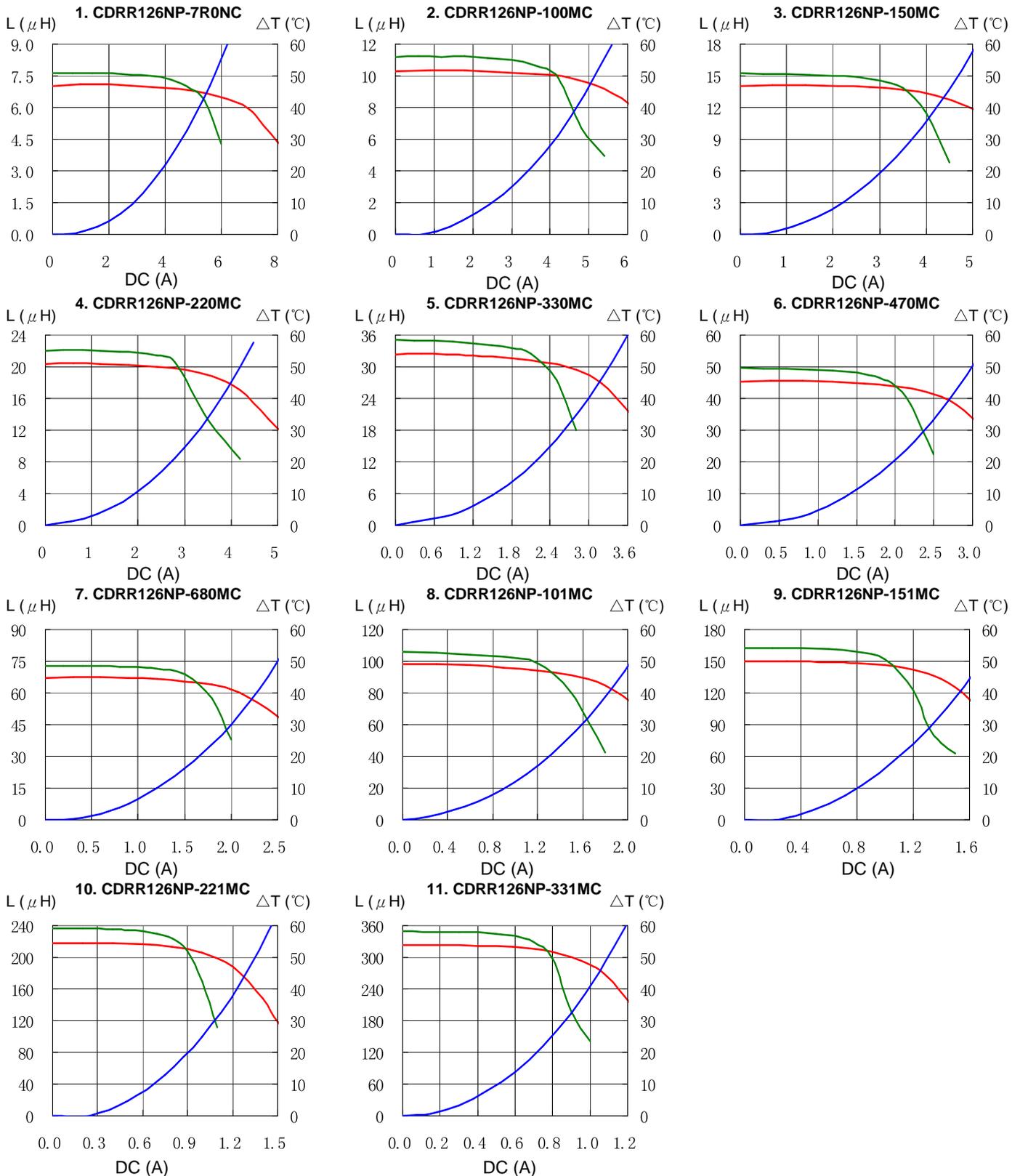
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t = 40^\circ\text{C}$  ( $T_a = 20^\circ\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

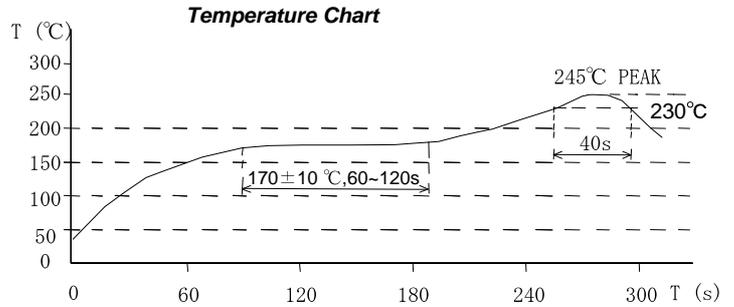
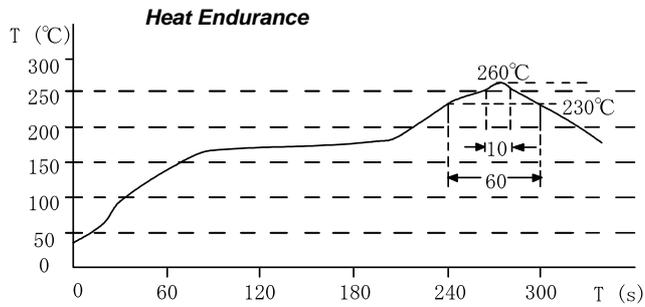
— L (25°C) — L (125°C) —  $\Delta T$



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## Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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