

SMD Power Inductor CDRR105



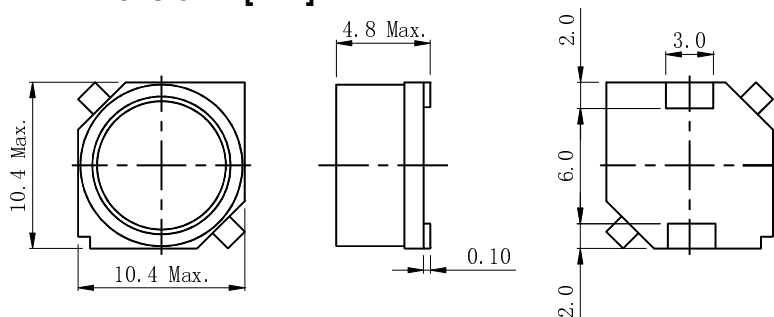
Halogen
Free



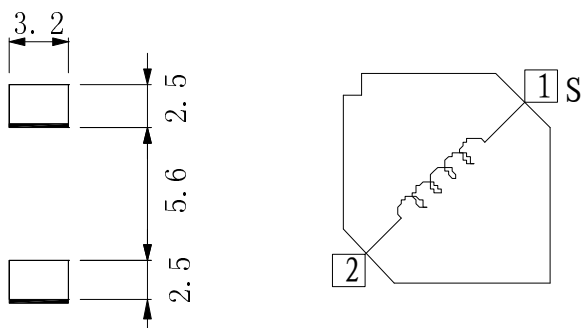
Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 10.4 × 10.4 × 4.8 mm Max.
- Product weight: 1.3 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.
- Qualification to AEC-Q200.

Dimension - [mm]



Land pattern and Schematics - [mm]



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.

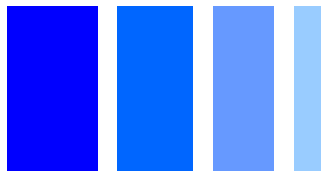
Packaging

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

Applications

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

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Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [Within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20°C)	DC Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				(at 20°C)	(at 125°C)	
CDRR105NP-3R3NC	3R3	3.3 $\pm$ 30%	21.0m(16.8m)	4.80(6.00)	3.76(4.70)	4.90(5.60)
CDRR105NP-5R6MC	5R6	5.6 $\pm$ 20%	29.6m(23.7m)	3.52(4.40)	2.88(3.60)	3.90(4.50)
CDRR105NP-100MC	100	10 $\pm$ 20%	47.5m(38.0m)	2.48(3.10)	1.92(2.40)	3.00(3.42)
CDRR105NP-150MC	150	15 $\pm$ 20%	63.8m(51.0m)	2.00(2.50)	1.56(1.95)	2.71(3.08)
CDRR105NP-220MC	220	22 $\pm$ 20%	77.5m(62.0m)	1.66(2.08)	1.30(1.62)	2.35(2.70)
CDRR105NP-330MC	330	33 $\pm$ 20%	0.105(84.0m)	1.32(1.65)	1.00(1.25)	1.93(2.20)
CDRR105NP-470MC	470	47 $\pm$ 20%	0.138(0.110)	1.12(1.40)	0.87(1.09)	1.70(1.92)
CDRR105NP-680MC	680	68 $\pm$ 20%	0.195(0.156)	0.98(1.22)	0.70(0.87)	1.38(1.58)
CDRR105NP-101MC	101	100 $\pm$ 20%	0.278(0.222)	0.80(1.00)	0.63(0.79)	1.16(1.33)
CDRR105NP-151MC	151	150 $\pm$ 20%	0.425(0.340)	0.67(0.84)	0.52(0.65)	0.93(1.05)
CDRR105NP-221MC	221	220 $\pm$ 20%	0.573(0.458)	0.51(0.64)	0.40(0.50)	0.76(0.87)
CDRR105NP-331MC	331	330 $\pm$ 20%	0.848(0.678)	0.44(0.54)	0.34(0.42)	0.61(0.71)
CDRR105NP-471MC	471	470 $\pm$ 20%	1.20(1.01)	0.38(0.48)	0.30(0.37)	0.54(0.62)
CDRR105NP-681MC	681	680 $\pm$ 20%	1.82(1.52)	0.32(0.39)	0.24(0.30)	0.42(0.48)
CDRR105NP-102MC	102	1000 $\pm$ 20%	2.71(2.26)	0.26(0.32)	0.20(0.24)	0.32(0.37)
CDRR105NP-152MC	152	1500 $\pm$ 20%	4.00(3.33)	0.21(0.26)	0.16(0.20)	0.27(0.32)

※1. Measuring condition: at 1kHz.

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

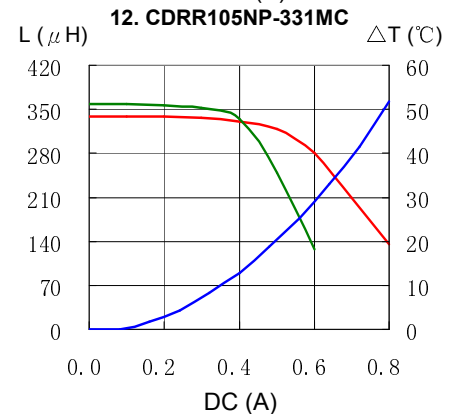
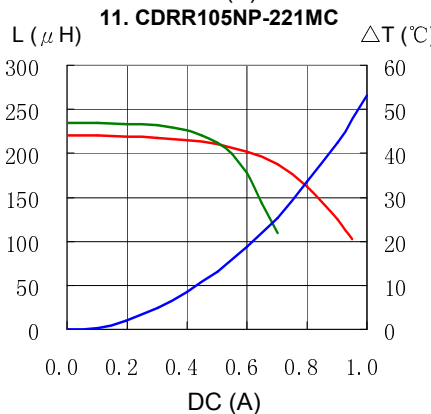
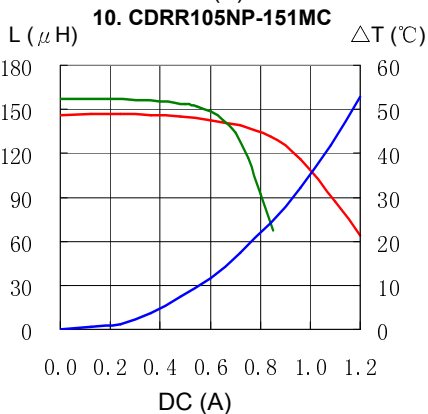
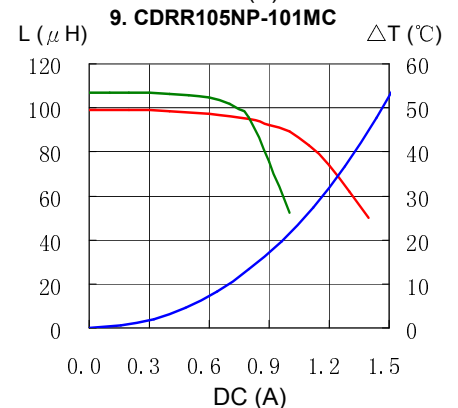
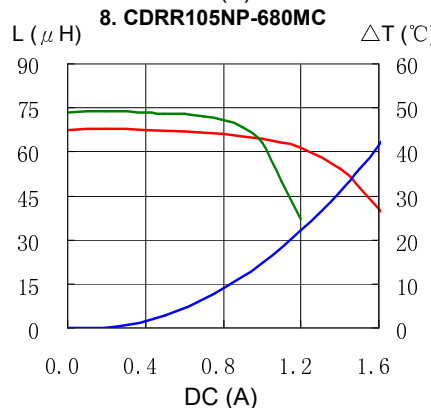
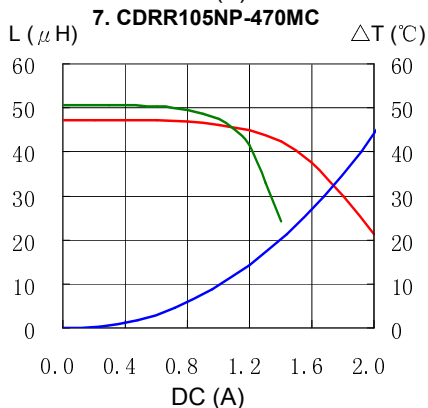
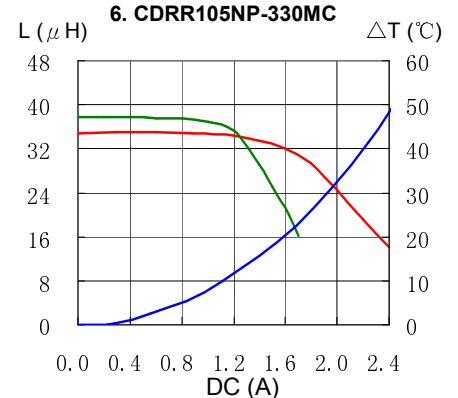
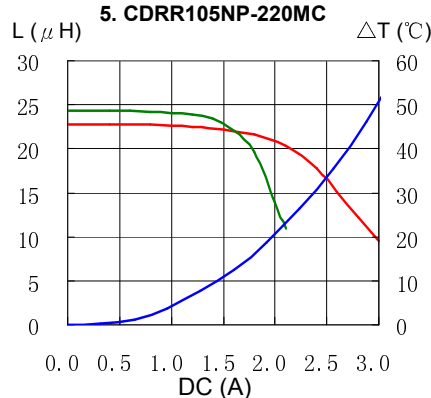
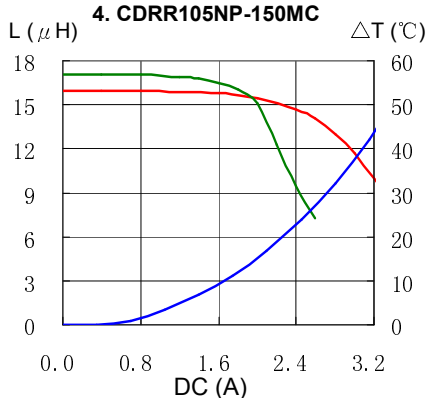
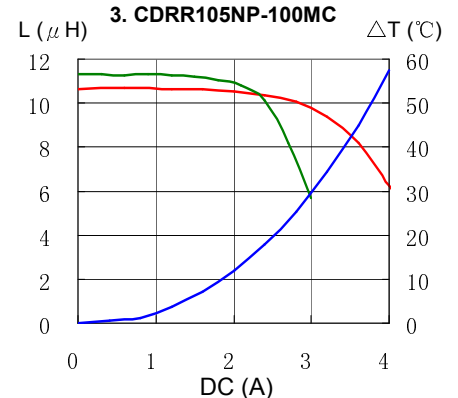
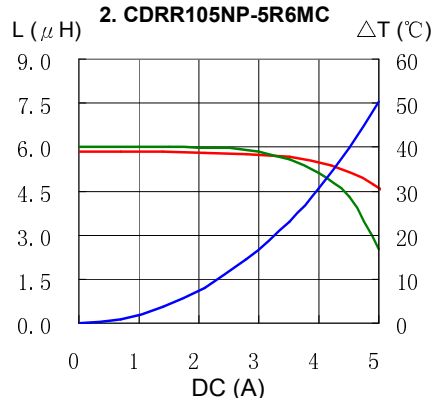
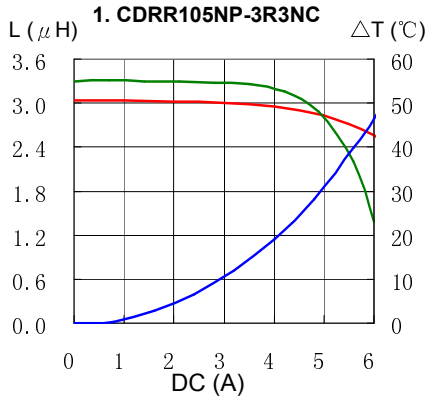
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT

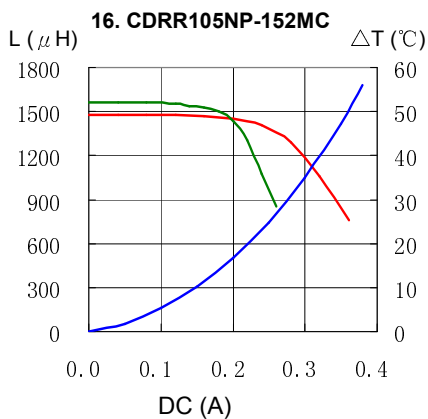
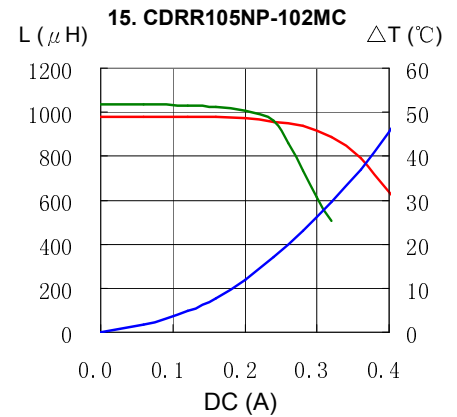
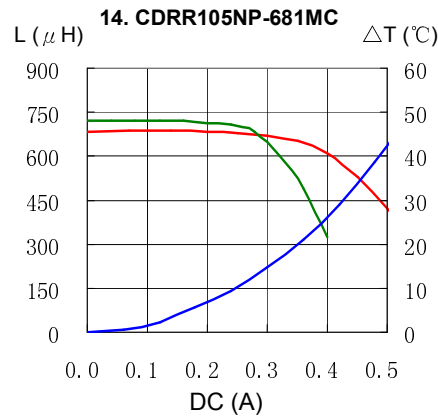
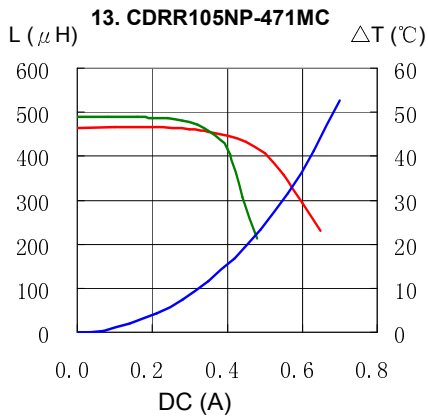


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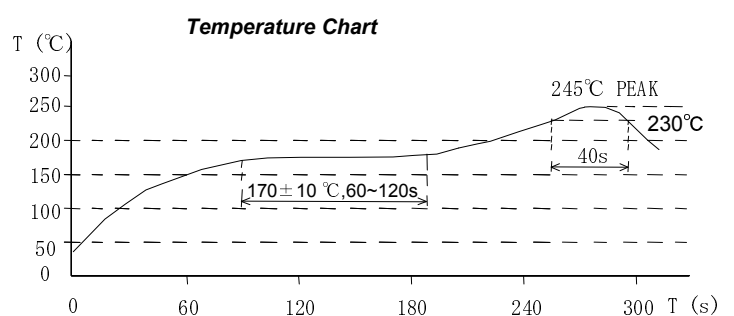
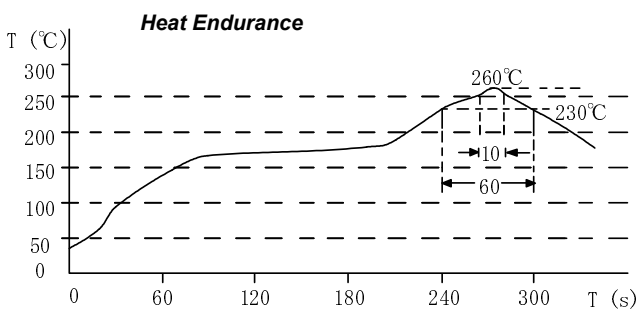


Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT



Solder Reflow Condition



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