

SMD Power Inductor CDRR107



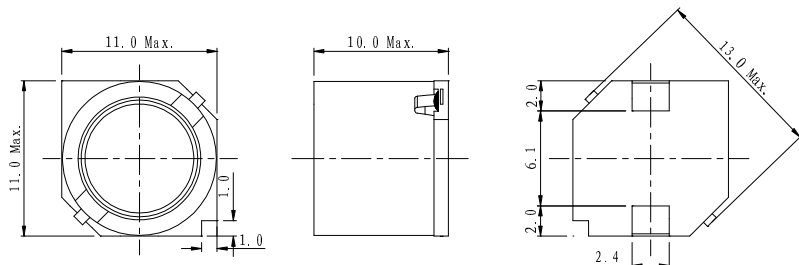
Halogen
Free



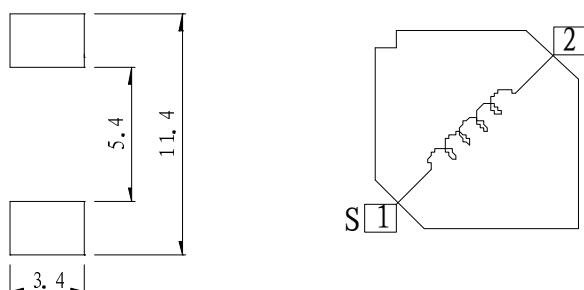
Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 11.0 × 11.0 × 10.0 mm Max.
- Product weight: 2.7g(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
- 300pcs 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 Number	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)	
CDRR107NP-101MC	101	100 $\pm$ 20%	0.19(0.15)	1.23(1.54)	0.85(1.06)	1.40(1.60)
CDRR107NP-121MC	121	120 $\pm$ 20%	0.20(0.16)	1.14(1.43)	0.72(0.90)	1.34(1.52)
CDRR107NP-151MC	151	150 $\pm$ 20%	0.22(0.18)	1.02(1.28)	0.67(0.84)	1.26(1.44)
CDRR107NP-181MC	181	180 $\pm$ 20%	0.25(0.20)	0.94(1.18)	0.65(0.81)	1.16(1.33)
CDRR107NP-221MC	221	220 $\pm$ 20%	0.27(0.22)	0.86(1.07)	0.58(0.71)	0.98(1.12)
CDRR107NP-271MC	271	270 $\pm$ 20%	0.39(0.31)	0.78(0.97)	0.53(0.66)	0.89(1.01)
CDRR107NP-331MC	331	330 $\pm$ 20%	0.49(0.39)	0.72(0.90)	0.46(0.58)	0.81(0.92)
CDRR107NP-391MC	391	390 $\pm$ 20%	0.54(0.43)	0.66(0.82)	0.44(0.55)	0.80(0.91)
CDRR107NP-471MC	471	470 $\pm$ 20%	0.68(0.55)	0.58(0.73)	0.40(0.50)	0.68(0.77)
CDRR107NP-561MC	561	560 $\pm$ 20%	0.86(0.69)	0.52(0.65)	0.36(0.45)	0.60(0.69)
CDRR107NP-681MC	681	680 $\pm$ 20%	1.0(0.80)	0.47(0.59)	0.34(0.42)	0.59(0.67)
CDRR107NP-821MC	821	820 $\pm$ 20%	1.10(0.89)	0.45(0.56)	0.30(0.38)	0.55(0.63)
CDRR107NP-102MC	102	1000 $\pm$ 20%	1.43(1.15)	0.40(0.50)	0.28(0.36)	0.47(0.53)
CDRR107NP-122MC	122	1200 $\pm$ 20%	1.60(1.25)	0.37(0.47)	0.25(0.32)	0.44(0.50)
CDRR107NP-152MC	152	1500 $\pm$ 20%	2.10(1.70)	0.34(0.42)	0.20(0.25)	0.38(0.43)
CDRR107NP-182MC	182	1800 $\pm$ 20%	2.30(1.90)	0.30(0.37)	0.20(0.25)	0.34(0.40)

※1. Measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

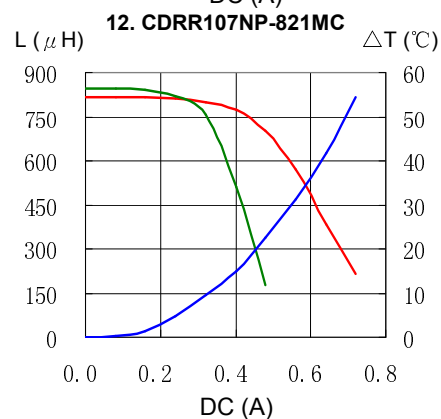
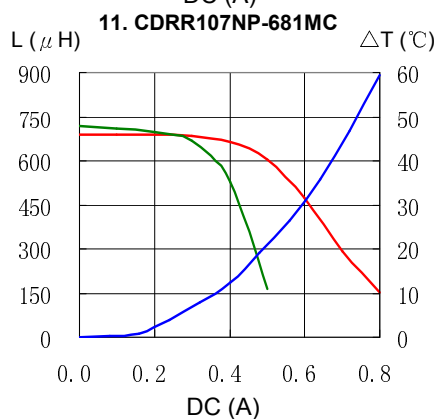
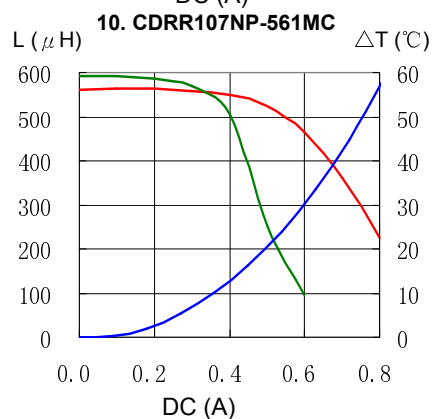
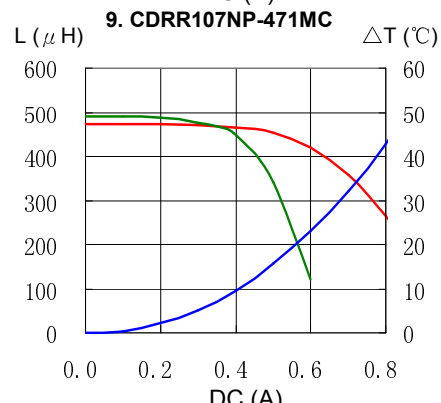
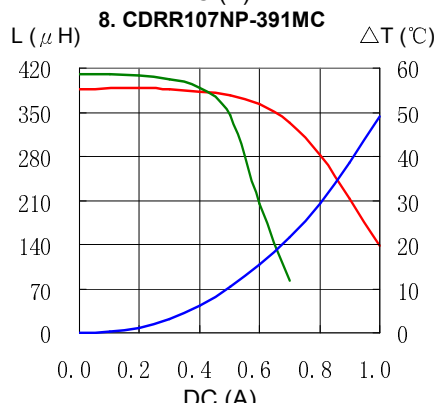
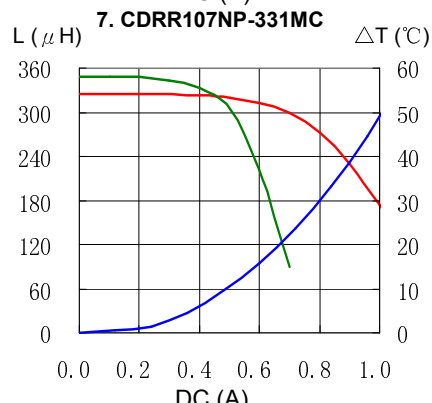
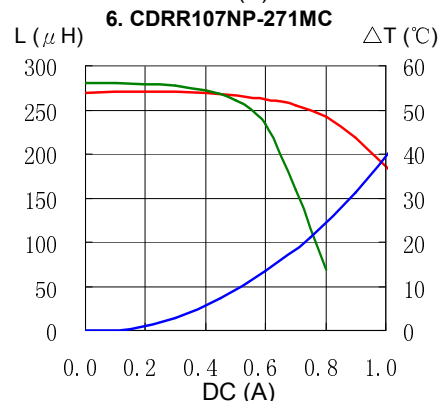
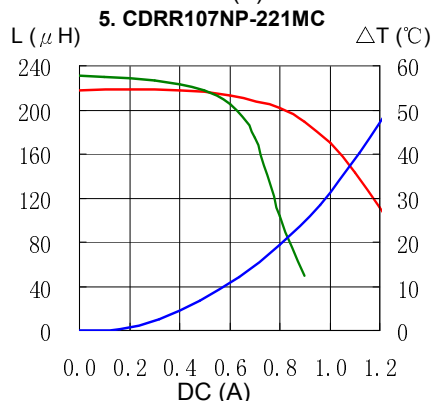
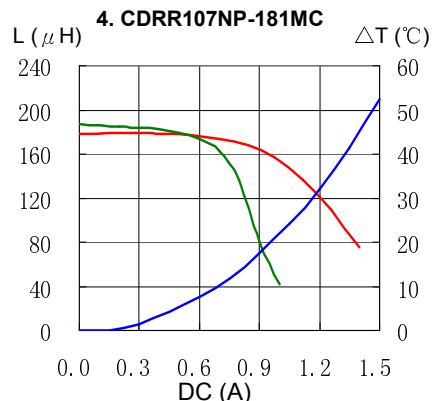
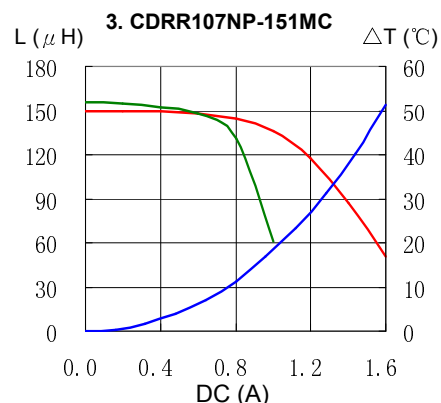
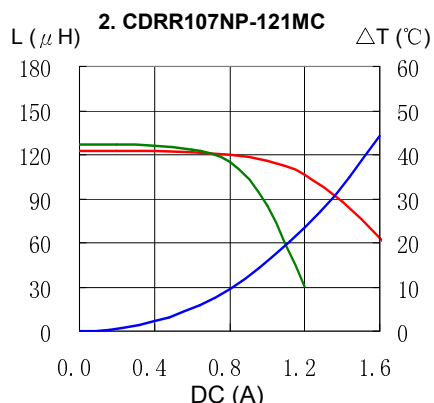
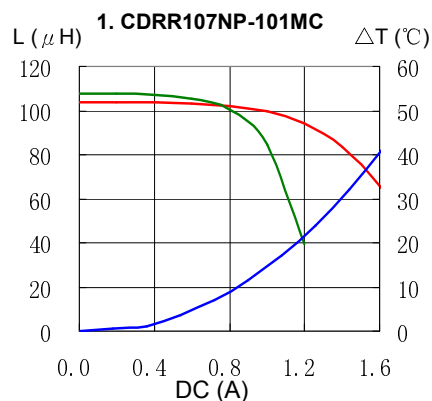
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT

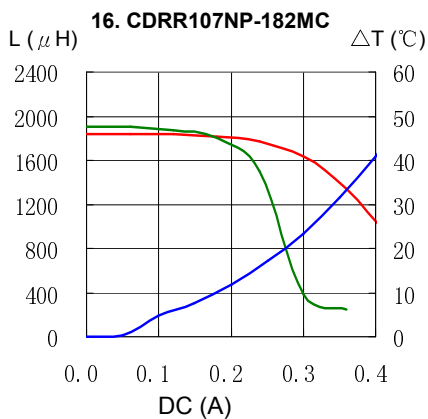
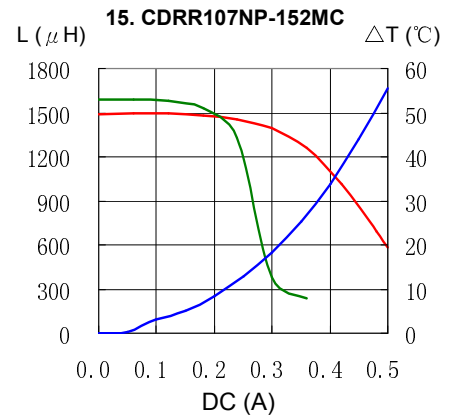
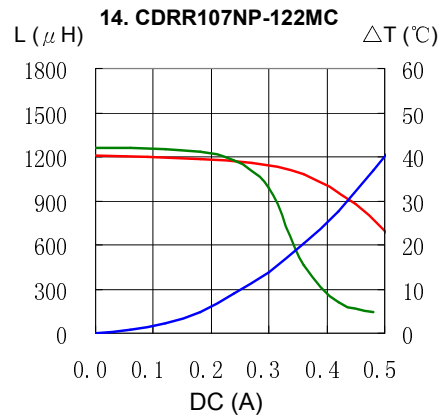
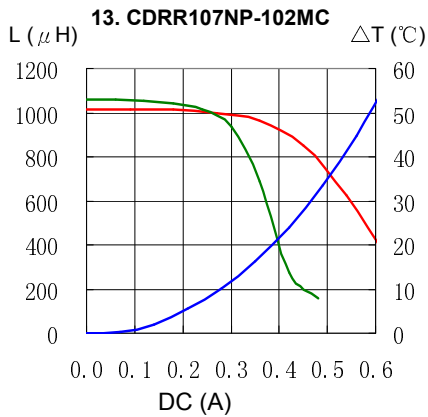


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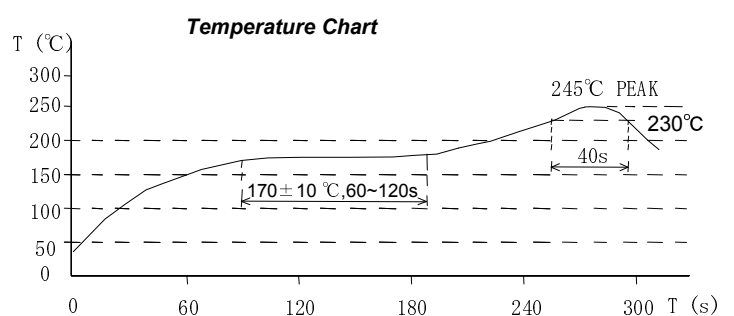
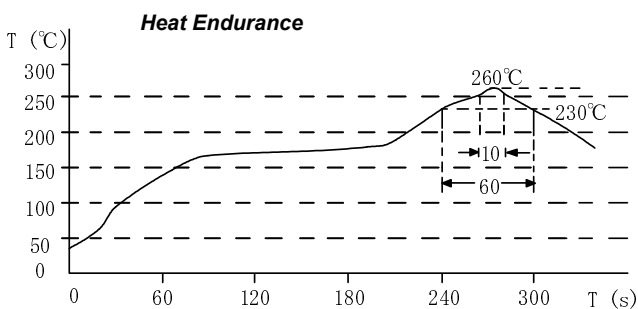


Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT



Solder Reflow Condition



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