

SMD Power Inductor

CDRH127



Recommended Type

Description

- Ferrite drum core construction
- Magnetically shielded
- L×W×H: 12.3×12.3×8.0 mm Max.
- Product weight: 3.6g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance



Environmental Data

- Operating Temperature: -40°C to +100°C (including coil's self-temperature rise)
- Storage temperature range: -40°C~+100°C
- Solder reflow temperature: 260 °C peak

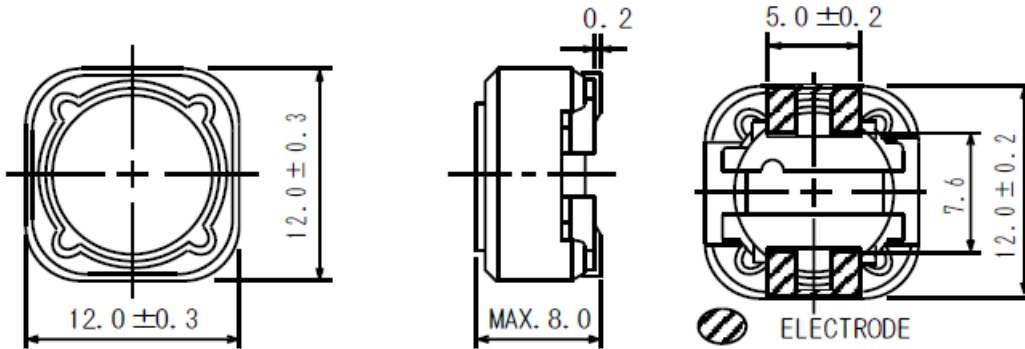
Packaging

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

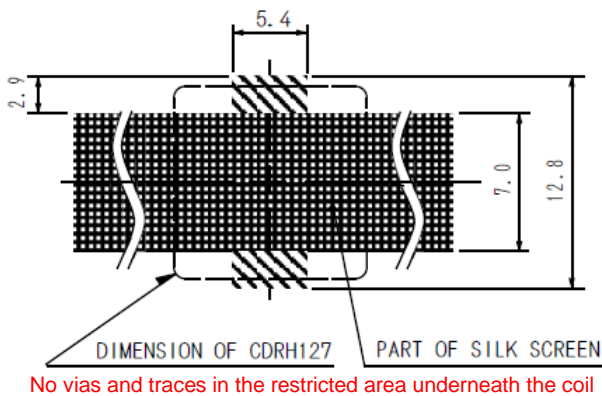
Applications

- Ideally used in notebook PC, LCD TV, DVD, game machine, STB, projector etc. as converter inductor

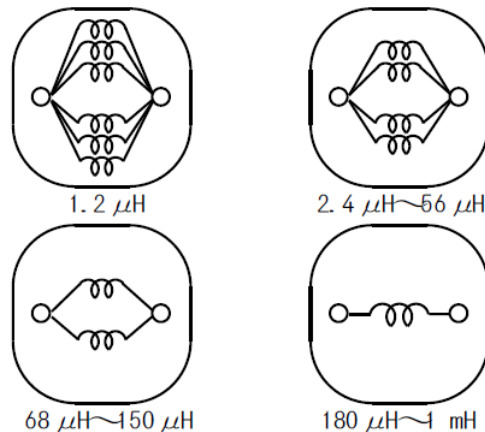
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

Part Number	Stamp	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
CDRH127NP-1R2NC	1R2	1.2 μ H \pm 20%	7.0 (5.2)	19.2 (24.0)	11.30
CDRH127NP-2R4NC	2R4	2.4 μ H \pm 20%	11.5 (8.5)	15.2 (19.0)	8.90
CDRH127NP-3R5NC	3R5	3.5 μ H \pm 20%	13.5 (10.0)	12.4 (15.5)	8.40
CDRH127NP-4R7NC	4R7	4.7 μ H \pm 20%	15.8 (11.7)	11.3 (14.2)	7.80
CDRH127NP-6R1NC	6R1	6.1 μ H \pm 20%	17.6 (13.0)	9.40 (11.8)	7.20
CDRH127NP-7R6NC	7R6	7.6 μ H \pm 20%	20.0 (15.0)	8.80 (11.0)	6.50
CDRH127NP-100MC	100	10 μ H \pm 20%	21.6 (16.0)	7.60 (9.50)	6.30
CDRH127NP-120MC	120	12 μ H \pm 20%	24.3 (18.0)	7.30 (9.20)	5.80
CDRH127NP-150MC	150	15 μ H \pm 20%	27.0 (20.0)	6.20 (7.80)	5.50
CDRH127NP-180MC	180	18 μ H \pm 20%	39.2 (29.0)	5.60 (7.10)	4.90
CDRH127NP-220MC	220	22 μ H \pm 20%	43.2 (32.0)	5.10 (6.40)	4.40
CDRH127NP-270MC	270	27 μ H \pm 20%	45.9 (34.0)	4.70 (5.90)	3.90
CDRH127NP-330MC	330	33 μ H \pm 20%	64.8 (48.0)	4.20 (5.30)	3.50
CDRH127NP-390MC	390	39 μ H \pm 20%	72.9 (54.0)	4.00 (5.00)	3.40
CDRH127NP-470MC	470	47 μ H \pm 20%	100 (76.0)	3.60 (4.50)	3.20
CDRH127NP-560MC	560	56 μ H \pm 20%	110 (83.0)	3.00 (3.80)	2.80
CDRH127NP-680MC	680	68 μ H \pm 20%	140 (100)	2.80 (3.50)	2.50
CDRH127NP-820MC	820	82 μ H \pm 20%	160 (120)	2.56 (3.20)	2.35
CDRH127NP-101MC	101	100 μ H \pm 20%	220 (170)	2.40 (3.00)	2.05
CDRH127NP-121MC	121	120 μ H \pm 20%	250 (180)	2.28 (2.85)	1.95
CDRH127NP-151MC	151	150 μ H \pm 20%	280 (210)	1.96 (2.45)	1.80
CDRH127NP-181MC	181	180 μ H \pm 20%	350 (260)	1.84 (2.30)	1.68
CDRH127NP-221MC	221	220 μ H \pm 20%	390 (290)	1.60 (2.00)	1.55
CDRH127NP-271MC	271	270 μ H \pm 20%	560 (420)	1.48 (1.85)	1.40
CDRH127NP-331MC	331	330 μ H \pm 20%	640 (470)	1.32 (1.65)	1.30
CDRH127NP-391MC	391	390 μ H \pm 20%	700 (520)	1.24 (1.55)	1.20
CDRH127NP-471MC	471	470 μ H \pm 20%	980 (730)	1.12 (1.40)	1.08
CDRH127NP-561MC	561	560 μ H \pm 20%	1,070 (790)	1.02 (1.28)	0.98
CDRH127NP-681MC	681	680 μ H \pm 20%	1,460 (1120)	0.96 (1.20)	0.82

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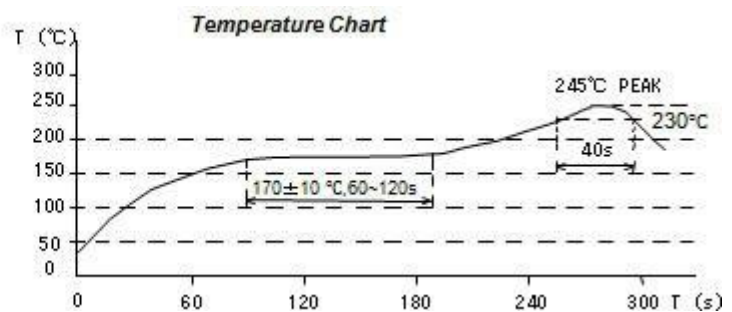
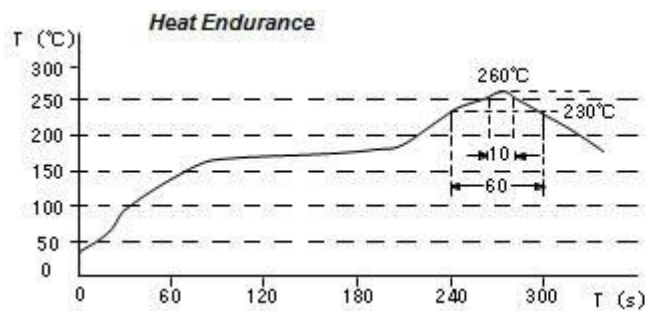
CDRH127NP-821MC	821	820 μ H \pm 20%	1,640 (1,260)	0.86 (1.08)	0.75
CDRH127NP-102MC	102	1.0mH \pm 20%	1,820 (1,400)	0.77 (0.96)	0.70

※1. Measured frequency: 1.2 μ H ~ 7.6 μ H at 100 kHz; 10 μ H ~ 1mH at 1 kHz

※2. Saturation current: This indicates the value of D.C. current when the inductance becomes 25% lower than its initial value. (Ta = 20°C)

※3. Temperature rise current: The actual value of D.C. current when the temperature of coil becomes Δ T=40°C (Ta = 20°C).

Solder Reflow Condition



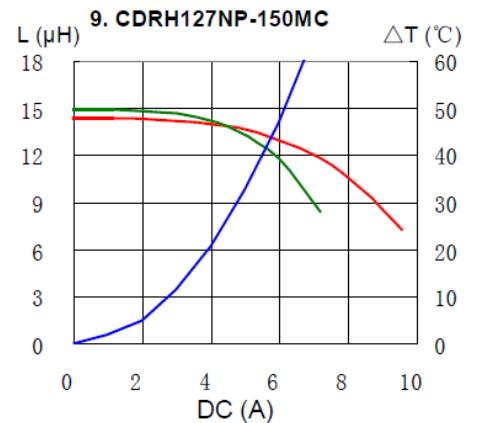
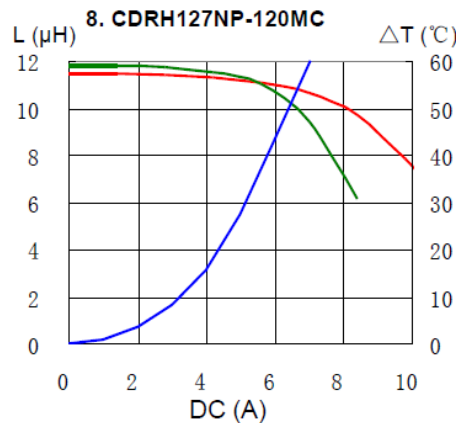
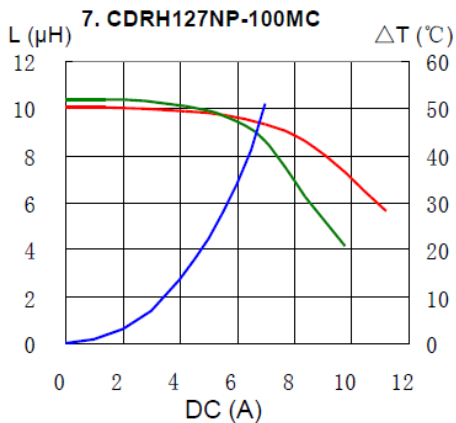
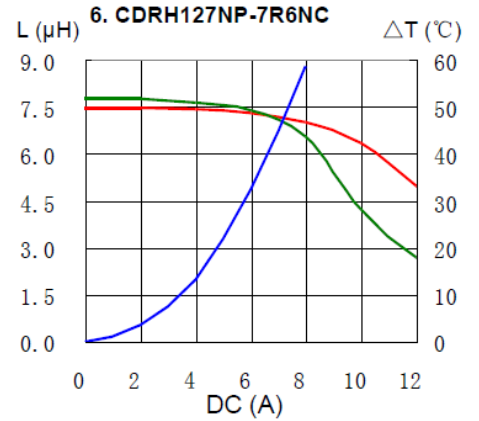
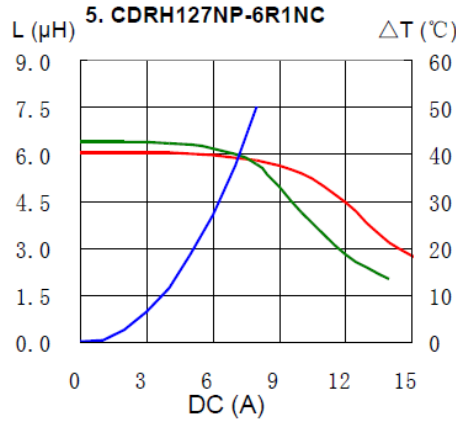
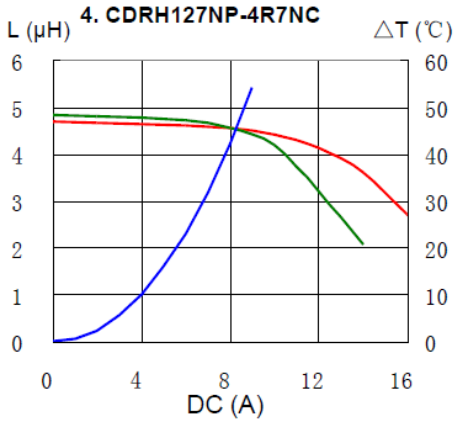
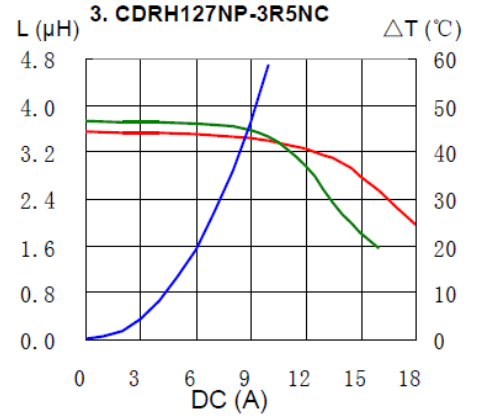
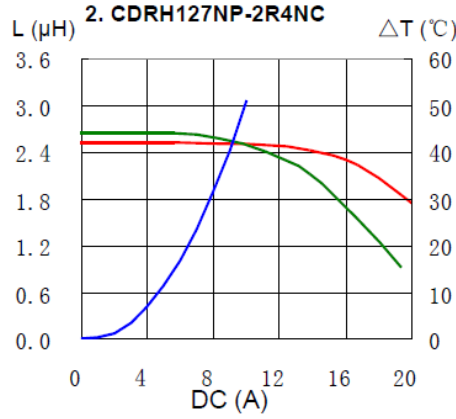
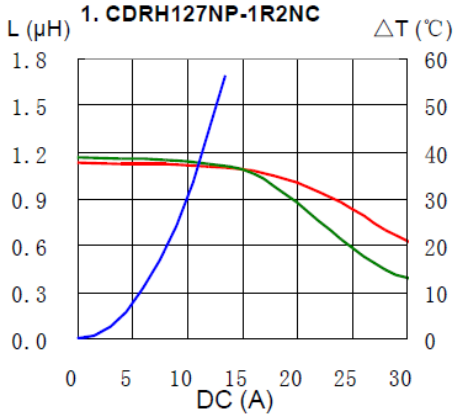
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

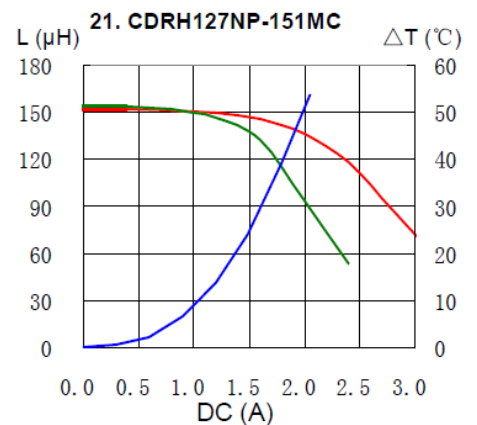
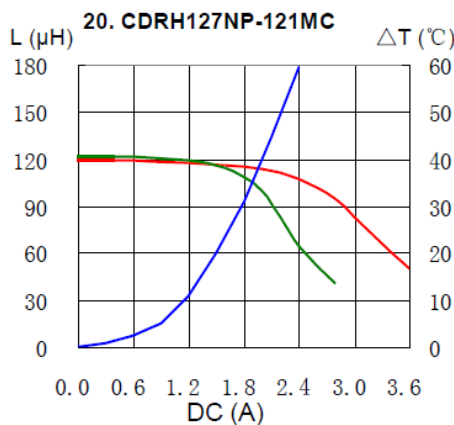
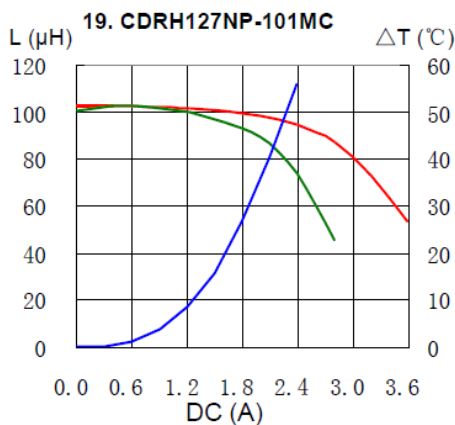
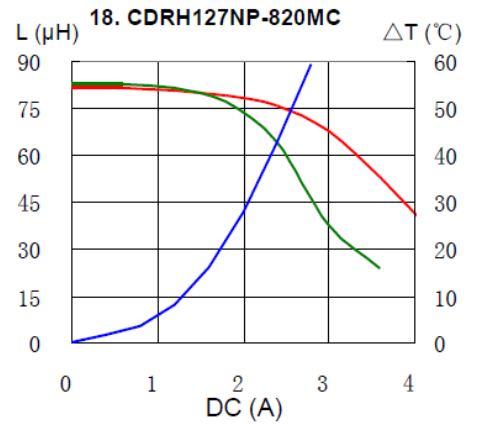
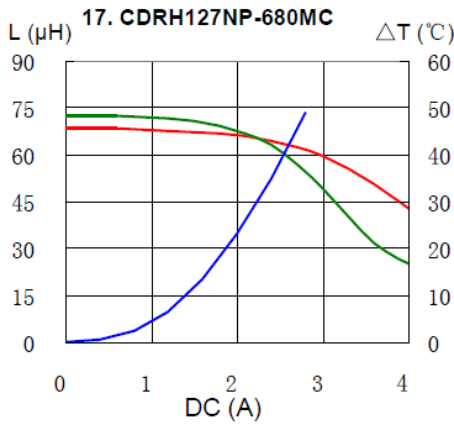
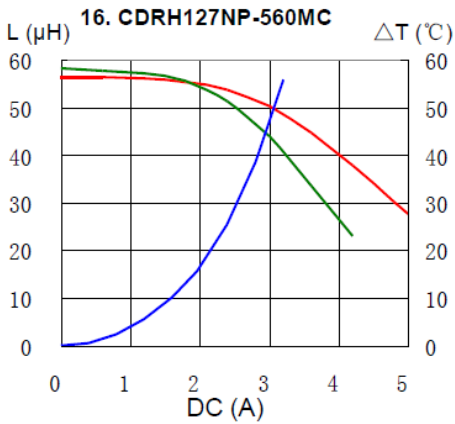
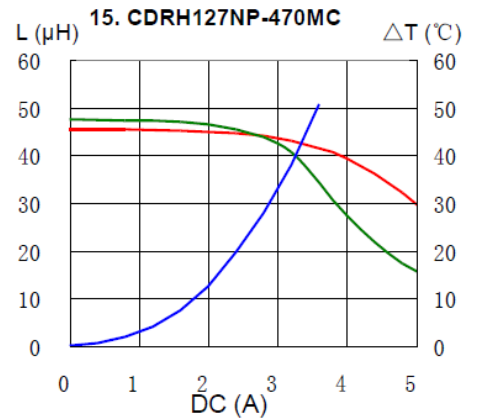
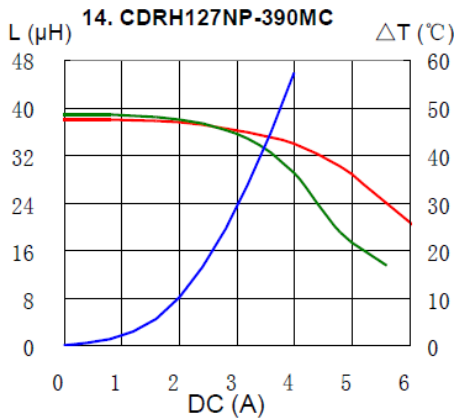
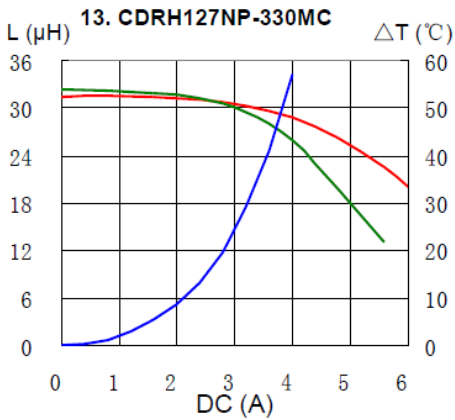
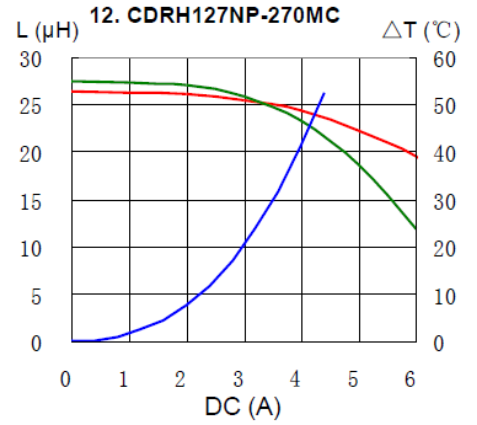
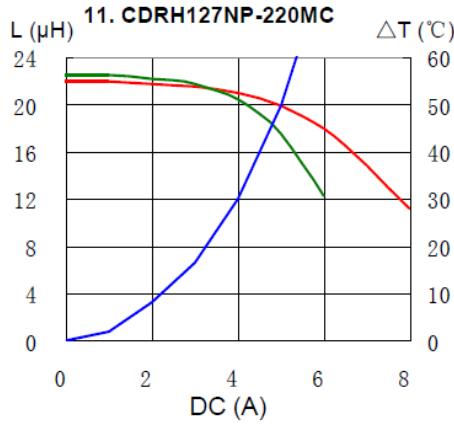
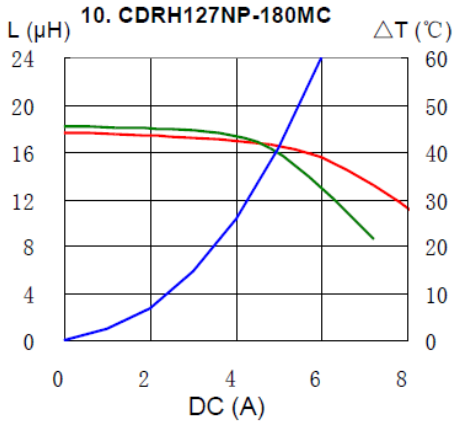


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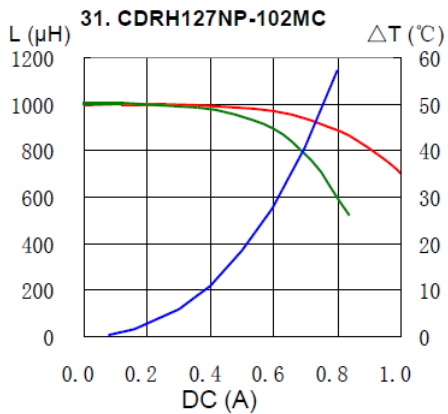
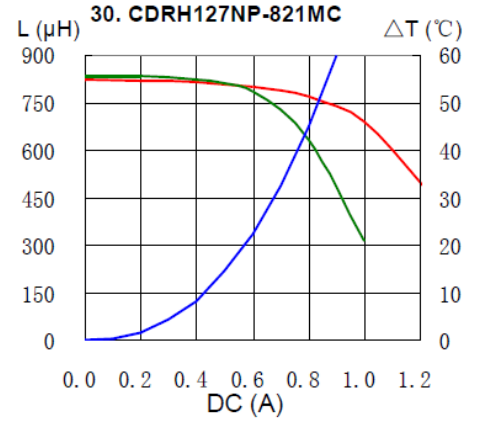
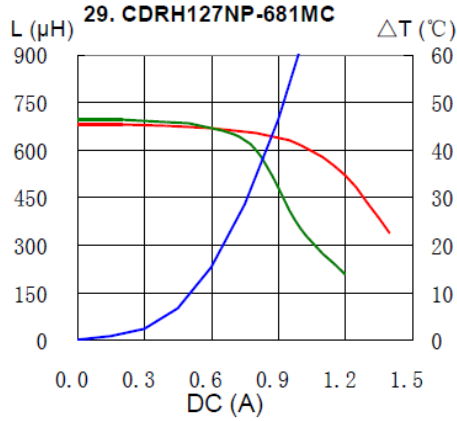
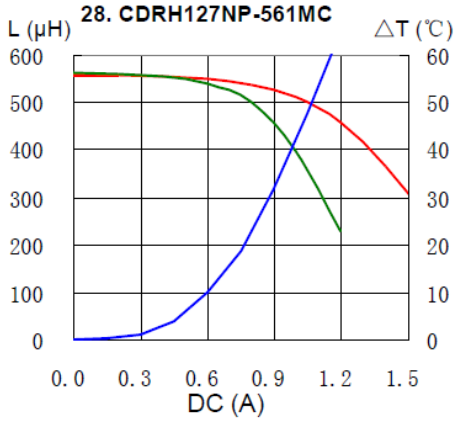
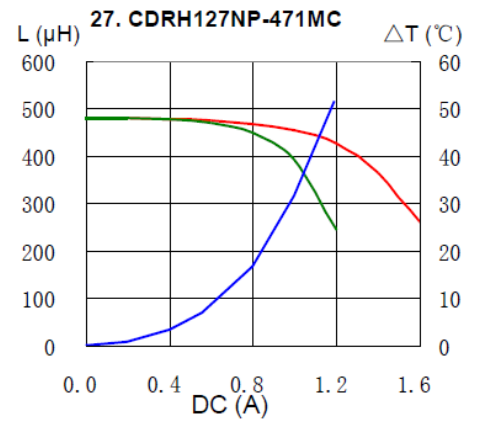
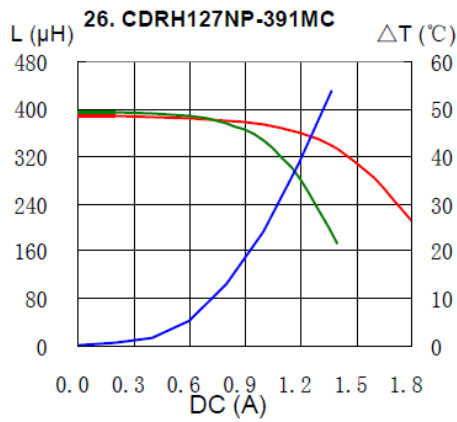
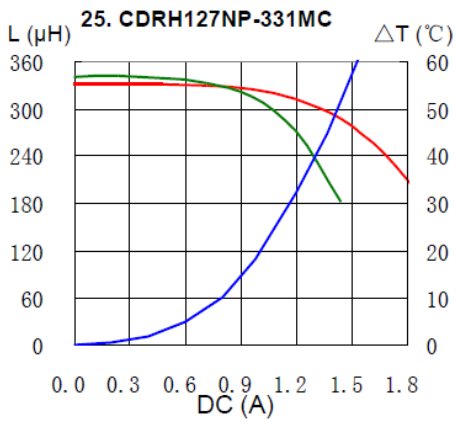
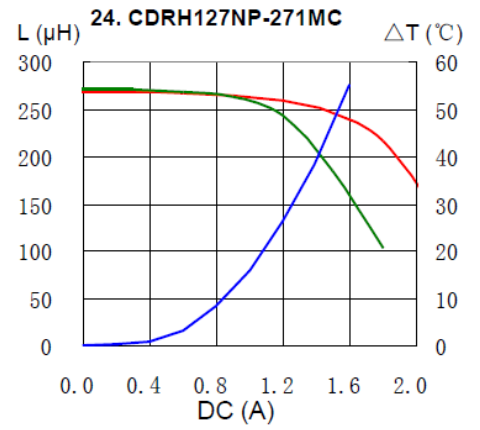
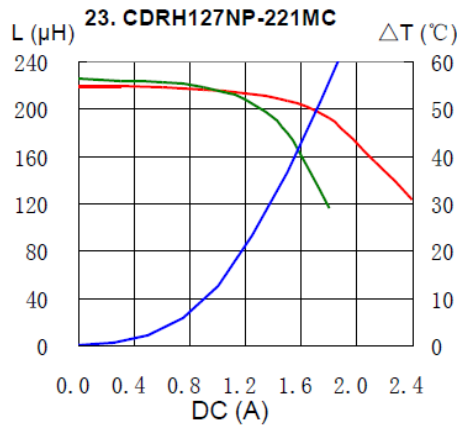
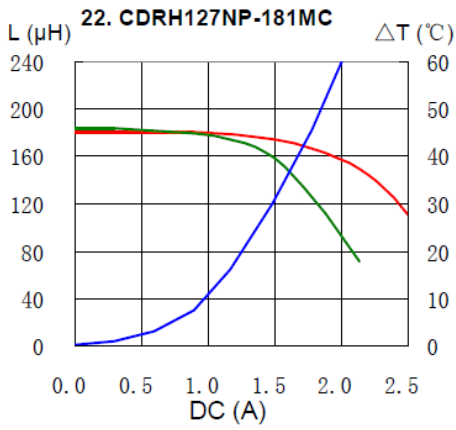
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