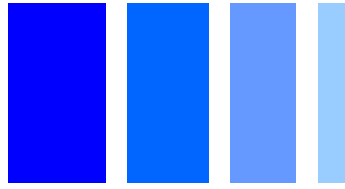


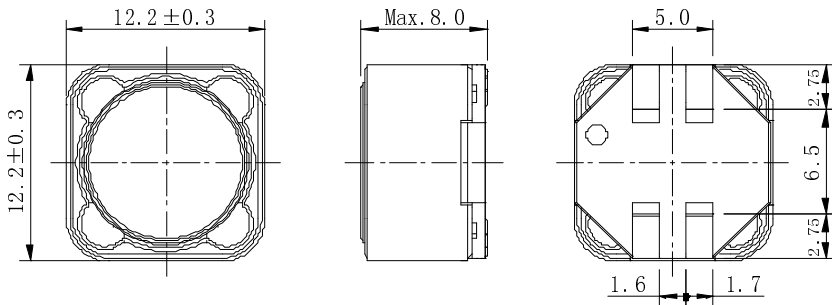
SMD Power Inductor CDRCH12D78B



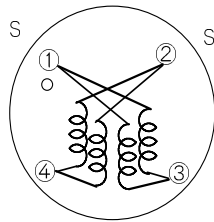
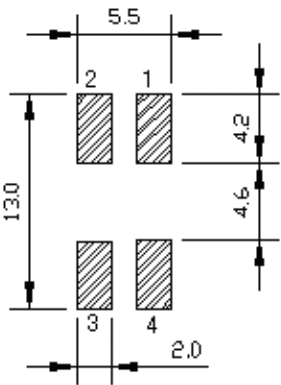
Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.5 × 12.5 × 8.0 mm Max.
- Product weight: 4.1g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

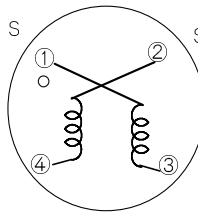
Dimension - [mm]



Land pattern and Schematics - [mm]



(4.7 μ H ~ 22 μ H)



(33 μ H ~ 470 μ H)

Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +105°C
- Solder reflow temperature: 260 °C peak.

Packaging

- Carrier tape and reel packaging.

Applications

- Ideally used in LED modules, DC/DC converters and 1:1 Transformer, etc.

SMD Power Inductor

CDRCH12D78B



Electrical Characteristics

Part Name	Stamp	Inductance(μ H) [within] ※1	D.C.R.(Ω) [Max.] ※2	Saturation Current (A) (at 20°C) ※3	Temperature rise current (A) ※4
CDRCH12D78BHF-4R7NC	4R7	4.7 \pm 30%	40m(30m)	13.2(15.6)	3.9(4.4)
CDRCH12D78BHF-6R8NC	6R8	6.8 \pm 30%	46m(36m)	12.0(14.2)	3.6(4.1)
CDRCH12D78BHF-100MC	100	10 \pm 20%	54m(42m)	10.0(11.8)	3.2(3.6)
CDRCH12D78BHF-150MC	150	15 \pm 20%	72m(58m)	8.2(9.7)	2.8(3.2)
CDRCH12D78BHF-220MC	220	22 \pm 20%	96m(80m)	7.0(8.2)	2.3(2.6)
CDRCH12D78BHF-330MC	330	33 \pm 20%	144m(120m)	5.5(6.5)	1.8(2.1)
CDRCH12D78BHF-470MC	470	47 \pm 20%	186m(155m)	4.6(5.5)	1.5(1.7)
CDRCH12D78BHF-680MC	680	68 \pm 20%	266m(222m)	3.9(4.6)	1.3(1.5)
CDRCH12D78BHF-101MC	101	100 \pm 20%	384m(320m)	3.1(3.7)	1.10(1.25)
CDRCH12D78BHF-151MC	151	150 \pm 20%	648m(540m)	2.5(3.0)	0.83(0.95)
CDRCH12D78BHF-221MC	221	220 \pm 20%	936m(780m)	2.1(2.5)	0.68(0.78)
CDRCH12D78BHF-331MC	331	330 \pm 20%	1.35(1.17)	1.7(2.1)	0.56(0.64)
CDRCH12D78BHF-471MC	471	470 \pm 20%	2.01(1.75)	1.5(1.75)	0.45(0.52)

※1 Measuring frequency inductance at 100 kHz.

※2 () are typical value.

※3 Saturation current: The value of D.C. current when the inductance is over 70% of the initial value.

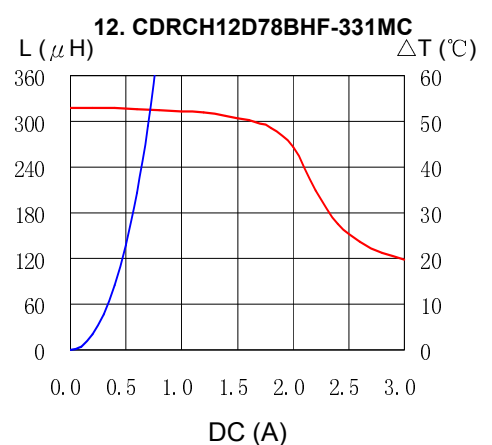
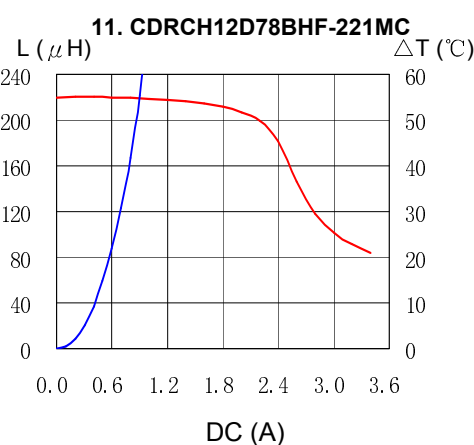
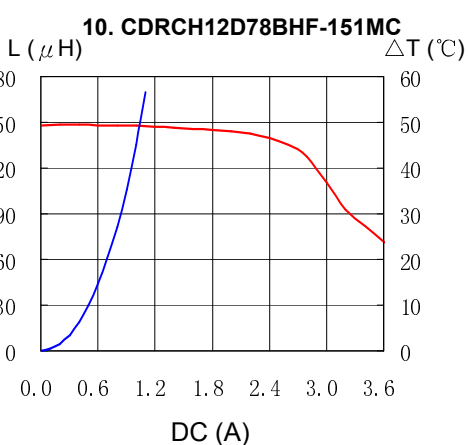
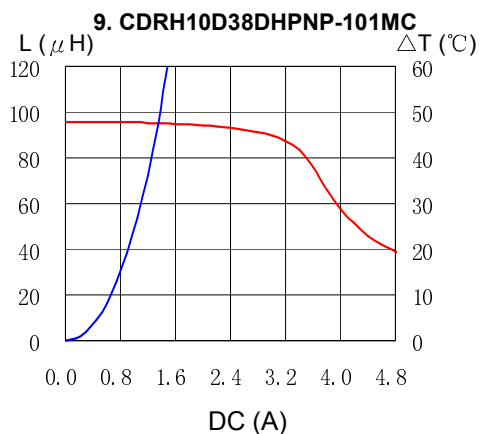
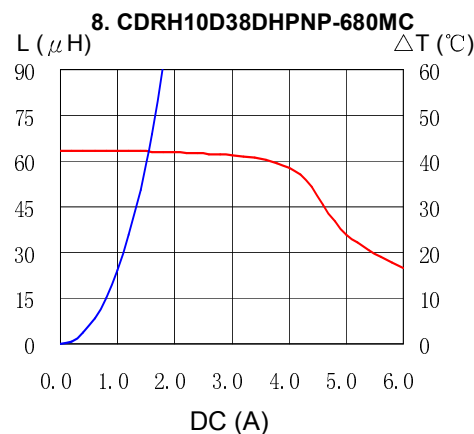
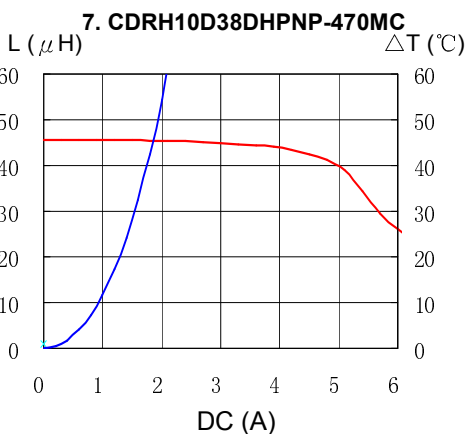
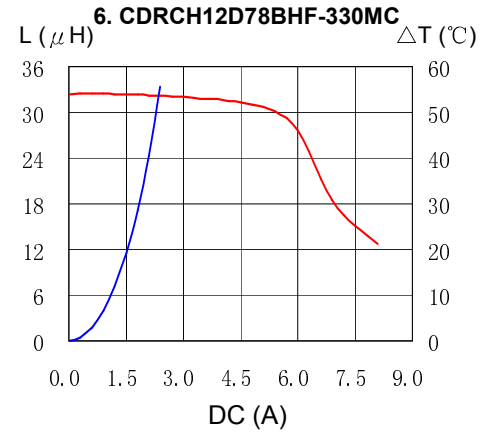
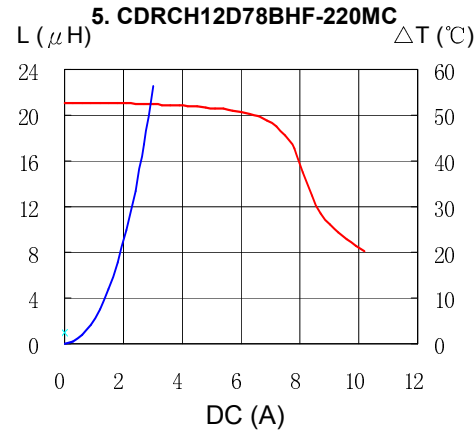
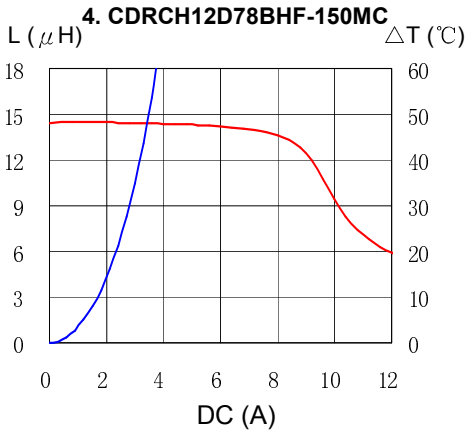
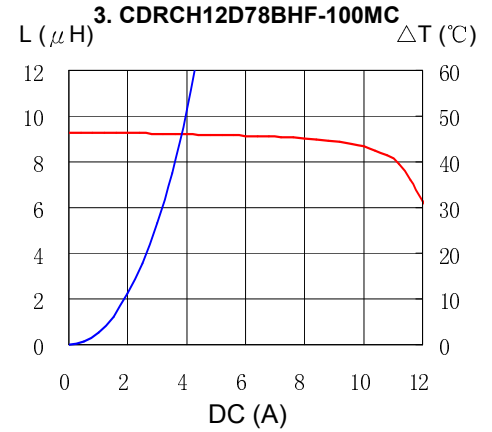
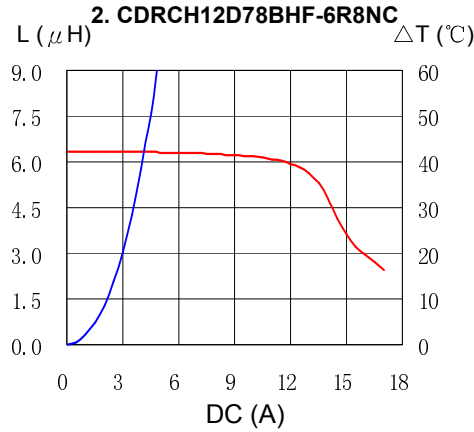
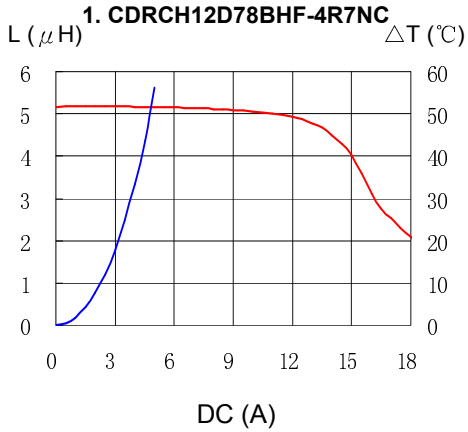
※4 Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)

SMD Power Inductor CDRCH12D78B



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

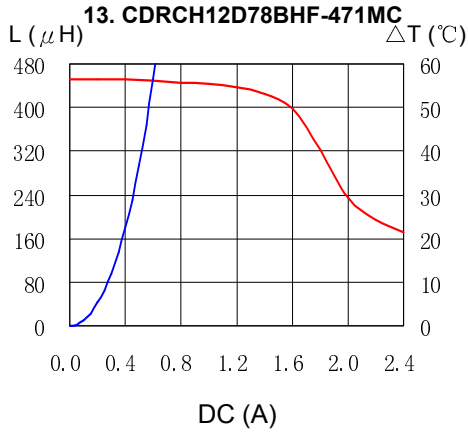


SMD Power Inductor CDRCH12D78B

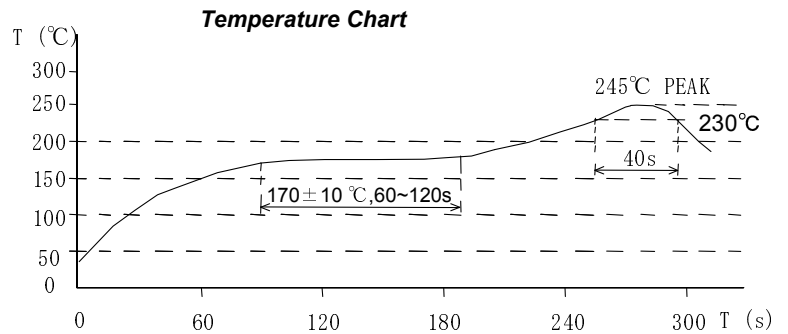
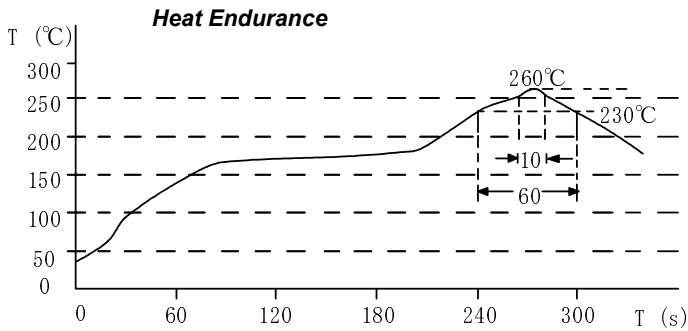


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



Solder Reflow Condition



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