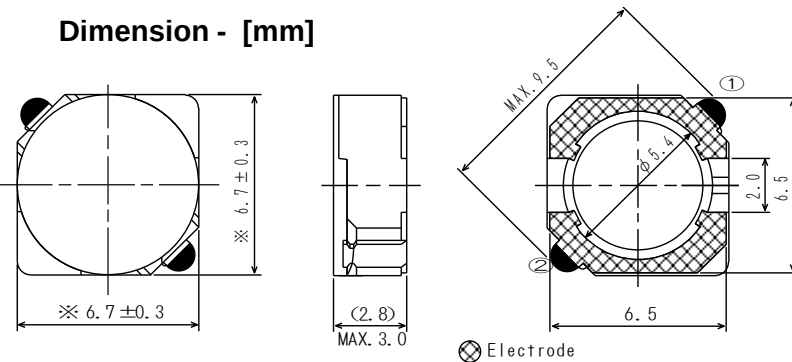


SMD Power Inductor

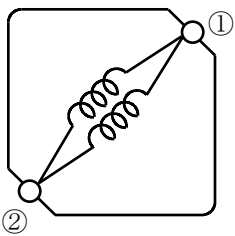
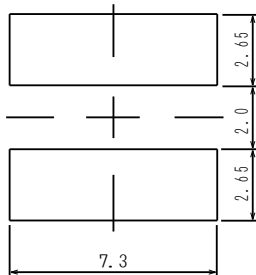
CDRH6D28



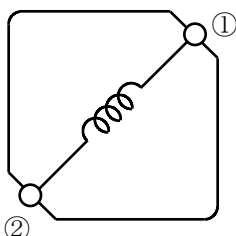
Dimension - [mm]



Land pattern and Schematics - [mm]



(3.0 μ H~6.0 μ H)



(7.3 μ H~100 μ H)

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L $\times$ W $\times$ H: 7.0 $\times$ 7.0 $\times$ 3.0 mm Max.
- Product weight: 0.44g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40 $^{\circ}$ C~+100 $^{\circ}$ C (including coil's self temperature rise)
- Storage temperature range: -40 $^{\circ}$ C~+100 $^{\circ}$ C
- Solder reflow temperature: 260 $^{\circ}$ C peak.

Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 1500pcs per reel

Applications

- Ideally used in MP3, PDA ,HDD,DSC/DVC, Notebook PC etc as DC-DC converter inductors.

SMD Power Inductor

CDRH6D28



Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH6D28NP-3R0NC	3R0	$3.0 \pm 30\%$	24m (18m)	3.00
CDRH6D28NP-3R9NC	3R9	$3.9 \pm 30\%$	27m (20m)	2.60
CDRH6D28NP-5R0NC	5R0	$5.0 \pm 30\%$	31m (23m)	2.40
CDRH6D28NP-6R0NC	6R0	$6.0 \pm 30\%$	35m (26m)	2.25
CDRH6D28NP-7R3NC	7R3	$7.3 \pm 30\%$	54m (40m)	2.10
CDRH6D28NP-8R6NC	8R6	$8.6 \pm 30\%$	58m (43m)	1.85
CDRH6D28NP-100NC	100	$10 \pm 30\%$	65m (48m)	1.70
CDRH6D28NP-120NC	120	$12 \pm 30\%$	70m (52m)	1.55
CDRH6D28NP-150NC	150	$15 \pm 30\%$	84m (62m)	1.40
CDRH6D28NP-180NC	180	$18 \pm 30\%$	95m (70m)	1.32
CDRH6D28NP-220NC	220	$22 \pm 30\%$	128m (95m)	1.20
CDRH6D28NP-270NC	270	$27 \pm 30\%$	142m(105m)	1.05
CDRH6D28NP-330NC	330	$33 \pm 30\%$	165m(122m)	0.97
CDRH6D28NP-390NC	390	$39 \pm 30\%$	210m(156m)	0.86
CDRH6D28NP-470NC	470	$47 \pm 30\%$	238m(176m)	0.80
CDRH6D28NP-560NC	560	$56 \pm 30\%$	277m(205m)	0.73
CDRH6D28NP-680NC	680	$68 \pm 30\%$	304m(225m)	0.65
CDRH6D28NP-820NC	820	$82 \pm 30\%$	390m(290m)	0.60
CDRH6D28NP-101NC	101	$100 \pm 30\%$	535m(397m)	0.54

※1. Inductance measuring condition: at 100kHz.

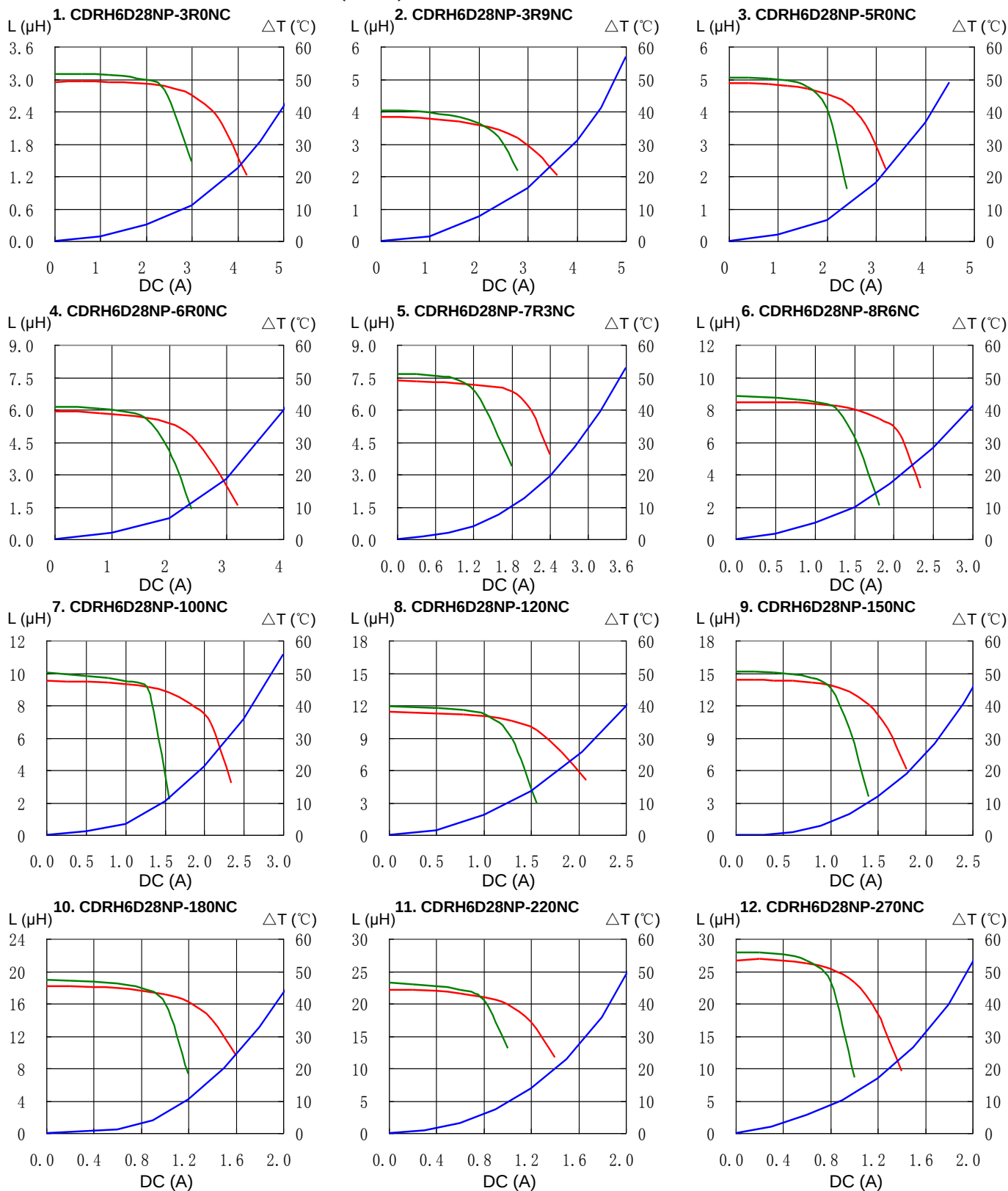
※2. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when $\Delta t=30^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

SMD Power Inductor CDRH6D28



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



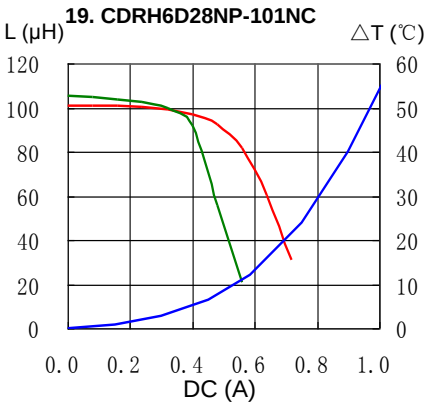
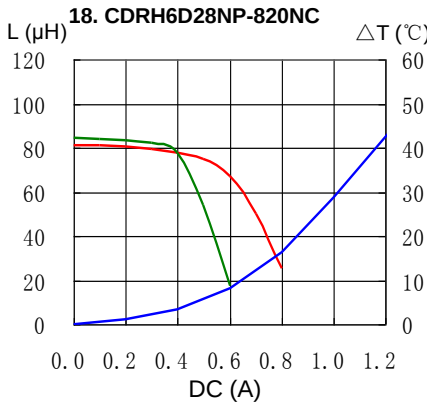
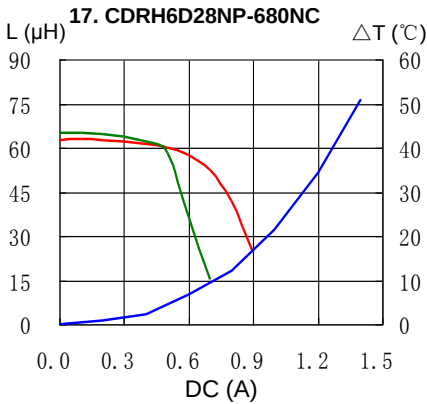
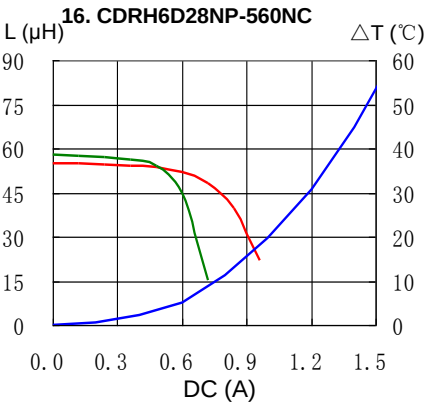
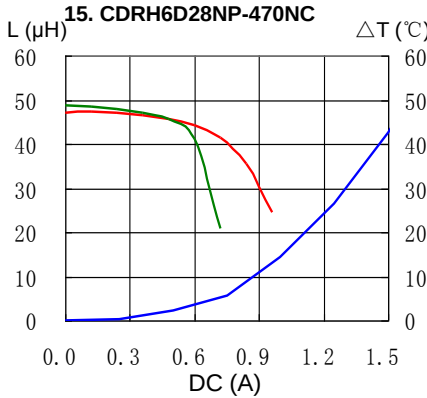
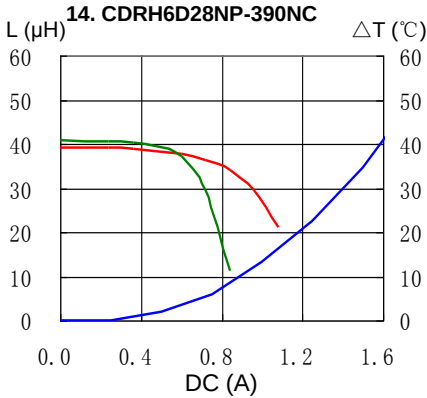
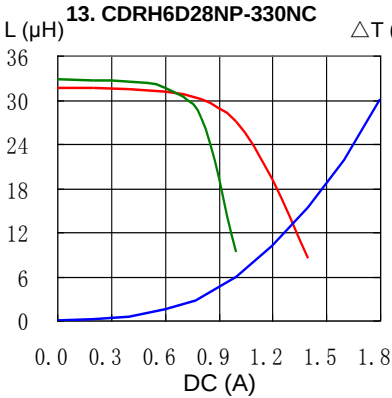
SMD Power Inductor

CDRH6D28



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

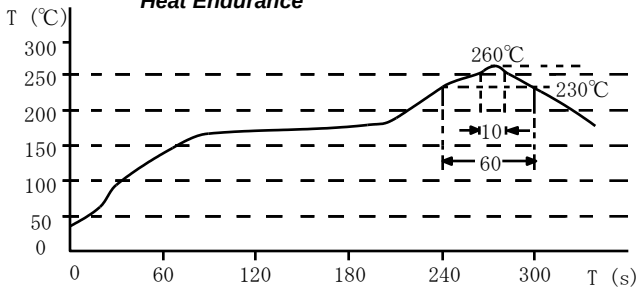


SMD Power Inductor CDRH6D28

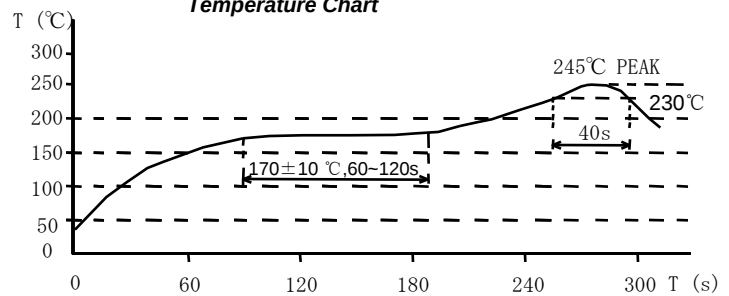


Solder Reflow Condition

Heat Endurance



Temperature Chart



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