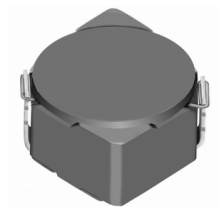


SMD Power Inductor CDRH6D38



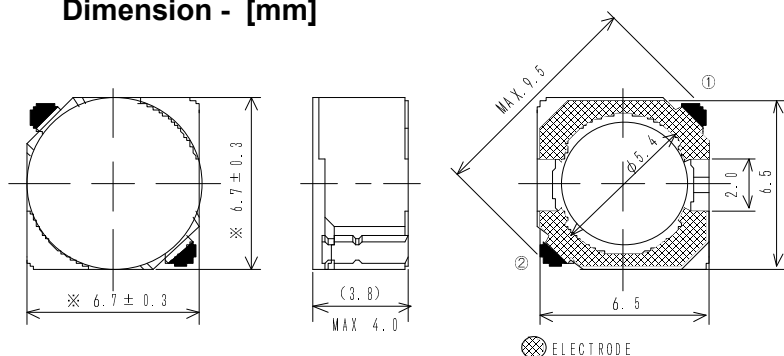
Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.0 × 7.0 × 4.0 mm Max.
- Product weight: 0.6g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



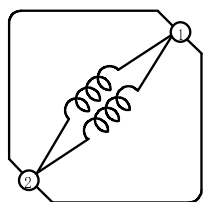
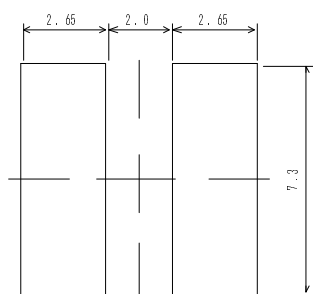
Environmental Data

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

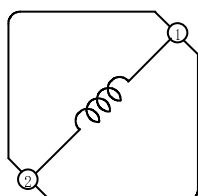
Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 1000 pcs per reel

Land pattern and Schematics - [mm]



($3.3 \mu\text{H} \sim 15 \mu\text{H}$)



($18 \mu\text{H} \sim 100 \mu\text{H}$)

Applications

- Ideally used in Game machine, HDD, Notebook PC, Projector, PDA, etc as DC-DC converter inductors.

SMD Power Inductor

CDRH6D38



Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH6D38NP-3R3NC	3R3	3.3 $\pm$ 30%	20m (15m)	3.50
CDRH6D38NP-5R0NC	5R0	5.0 $\pm$ 30%	24m (18m)	2.90
CDRH6D38NP-6R2NC	6R2	6.2 $\pm$ 30%	27m (20m)	2.50
CDRH6D38NP-7R4NC	7R4	7.4 $\pm$ 30%	31m (23m)	2.30
CDRH6D38NP-8R7NC	8R7	8.7 $\pm$ 30%	34m (25m)	2.20
CDRH6D38NP-100NC	100	10 $\pm$ 30%	38m (28m)	2.00
CDRH6D38NP-120NC	120	12 $\pm$ 30%	53m (39m)	1.70
CDRH6D38NP-150NC	150	15 $\pm$ 30%	57m (42m)	1.60
CDRH6D38NP-180NC	180	18 $\pm$ 30%	92m (68m)	1.50
CDRH6D38NP-220NC	220	22 $\pm$ 30%	96m (71m)	1.30
CDRH6D38NP-270NC	270	27 $\pm$ 30%	109m (81m)	1.20
CDRH6D38NP-330NC	330	33 $\pm$ 30%	124m (92m)	1.10
CDRH6D38NP-390NC	390	39 $\pm$ 30%	138m(102m)	1.00
CDRH6D38NP-470NC	470	47 $\pm$ 30%	155m(115m)	0.95
CDRH6D38NP-560NC	560	56 $\pm$ 30%	202m(150m)	0.85
CDRH6D38NP-680NC	680	68 $\pm$ 30%	234m(173m)	0.75
CDRH6D38NP-820NC	820	82 $\pm$ 30%	324m(240m)	0.70
CDRH6D38NP-101NC	101	100 $\pm$ 30%	358m(265m)	0.65

※1. Inductance measuring condition: at 100kHz.

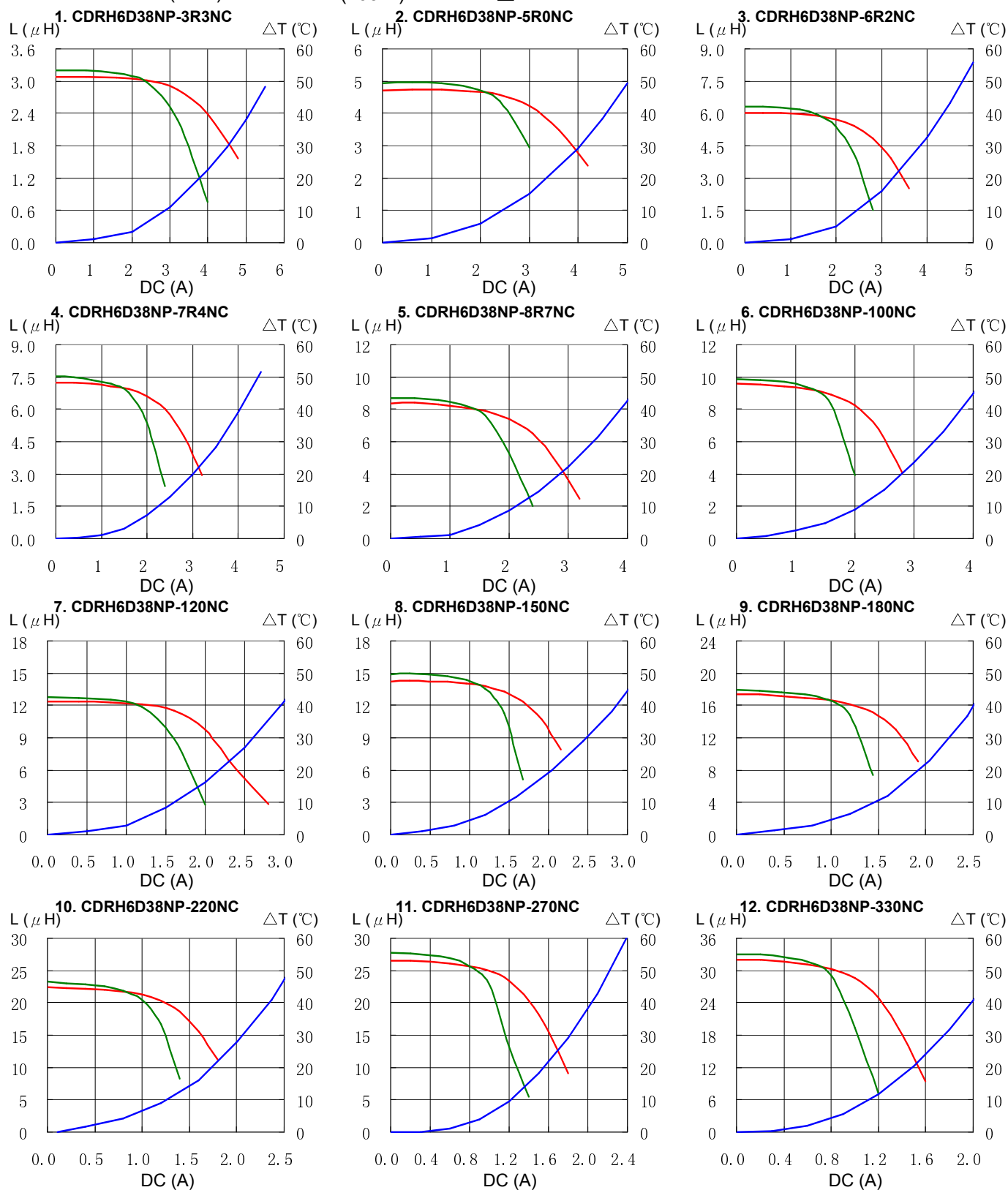
※2. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when $\Delta t=30^{\circ}\text{C}$, whichever is lower ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH6D38



Saturation Current & Temperature Rise Graph

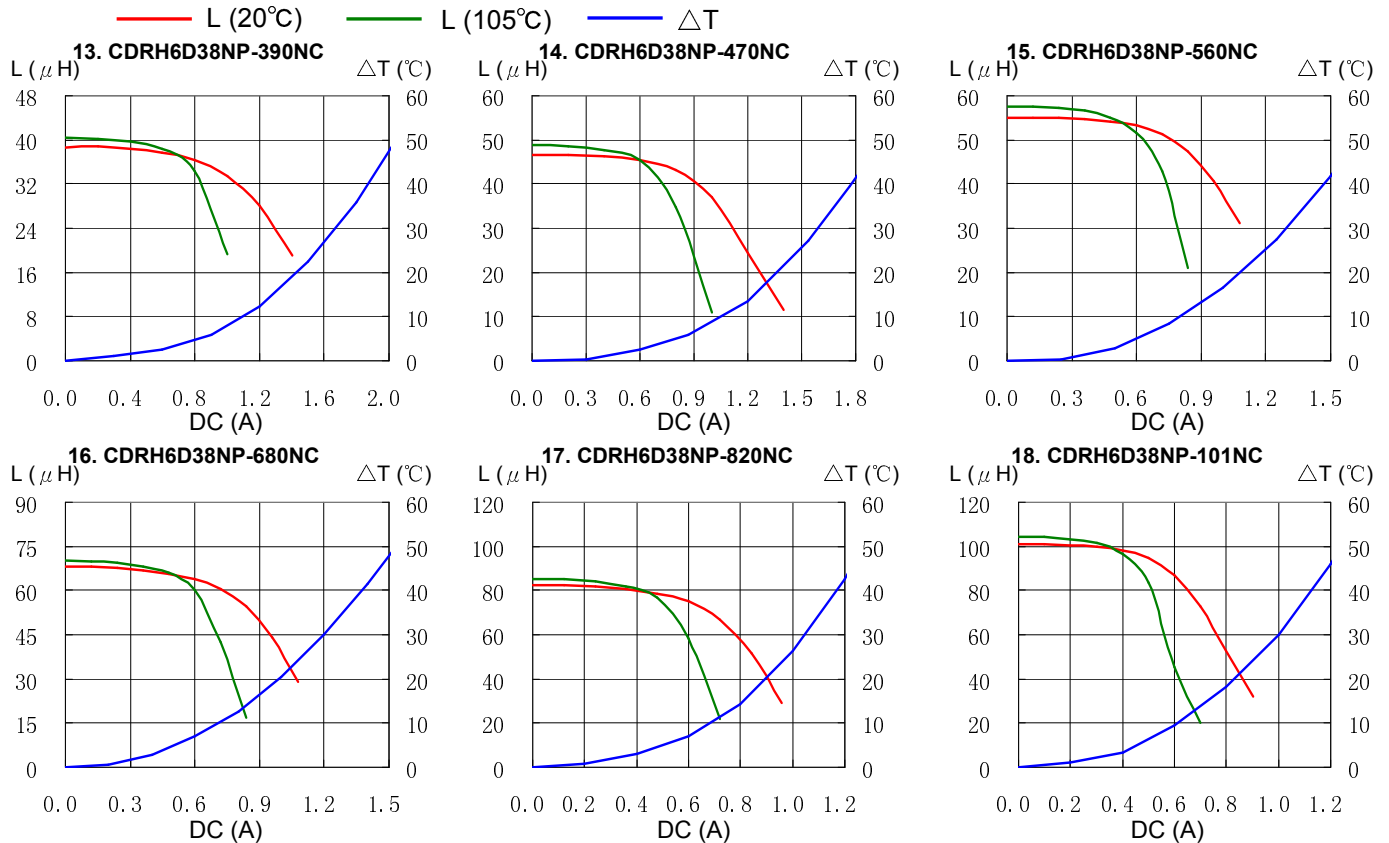
— L (20°C) — L (105°C) — ΔT



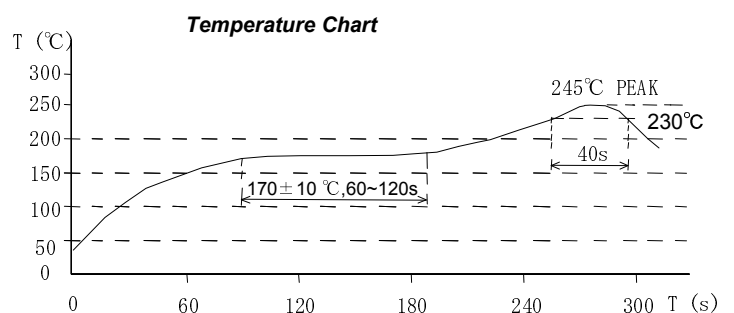
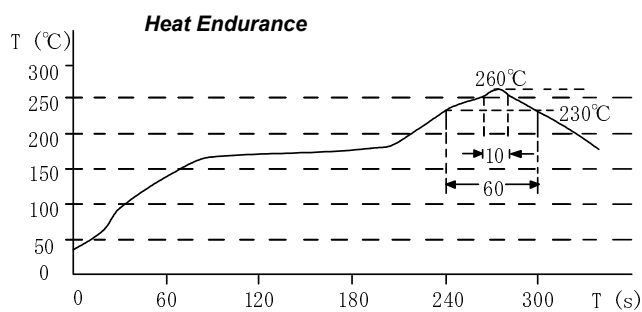
SMD Power Inductor CDRH6D38



Saturation Current & Temperature Rise Graph



Solder Reflow Condition



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