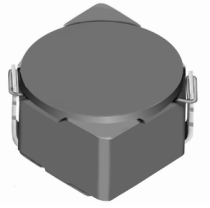
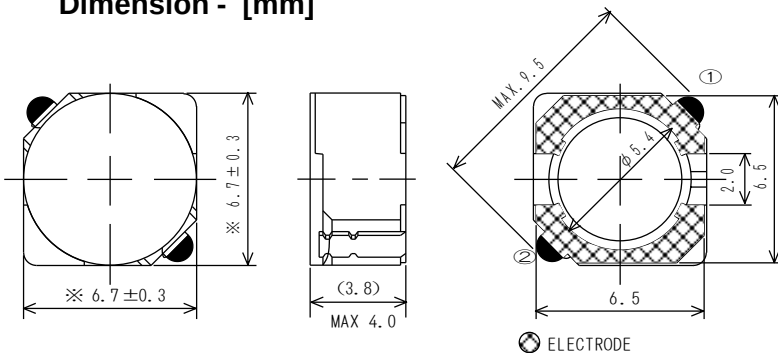


SMD Power Inductor

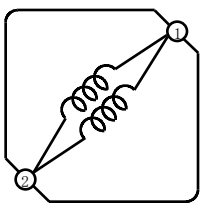
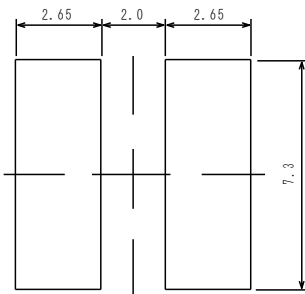
CDRH6D38



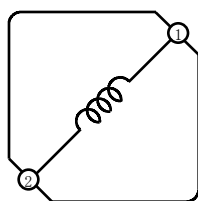
Dimension - [mm]



Land pattern and Schematics - [mm]



(3.3 μ H~15 μ H)



(18 μ H~100 μ H)

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L $\times$ W $\times$ H: 7.0 $\times$ 7.0 $\times$ 4.0 mm Max.
- Product weight: 0.6g(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

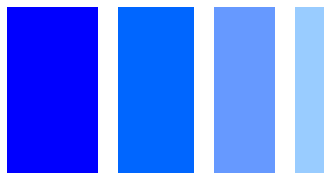
- Carrier tape and reel packaging
- 13" diameter reel
- 1000pcs per reel

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 ($T_a=20^\circ\text{C}$).

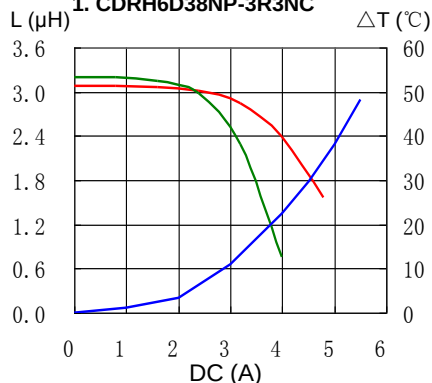
SMD Power Inductor CDRH6D38



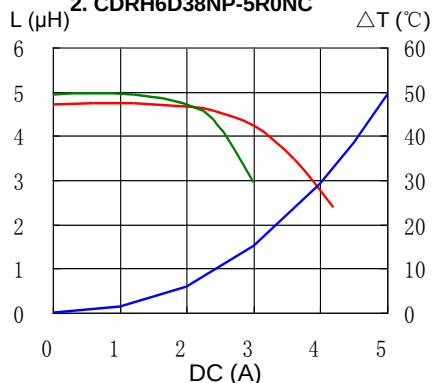
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

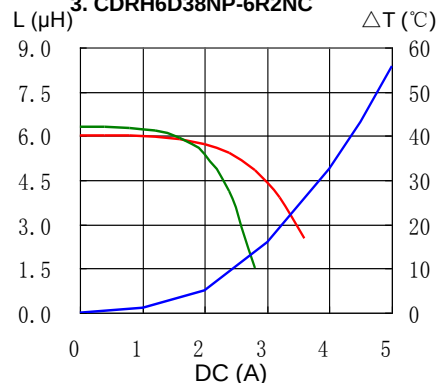
1. CDRH6D38NP-3R3NC



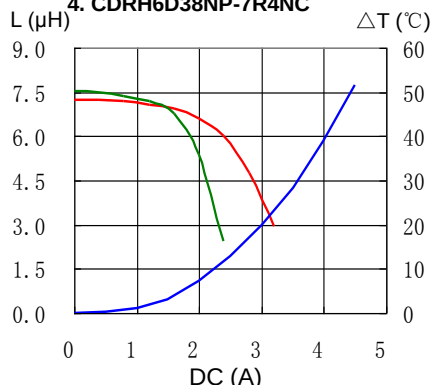
2. CDRH6D38NP-5R0NC



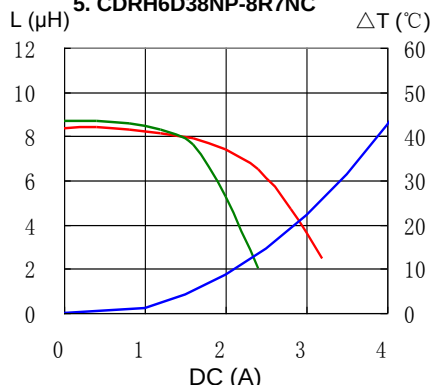
3. CDRH6D38NP-6R2NC



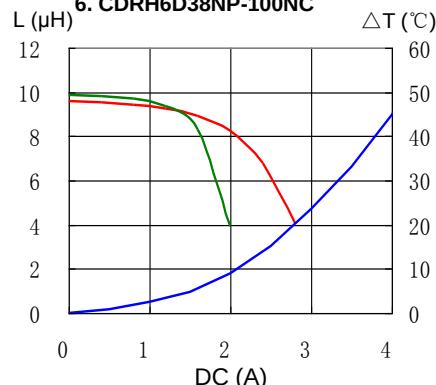
4. CDRH6D38NP-7R4NC



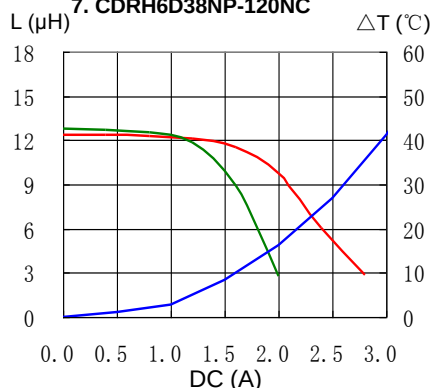
5. CDRH6D38NP-8R7NC



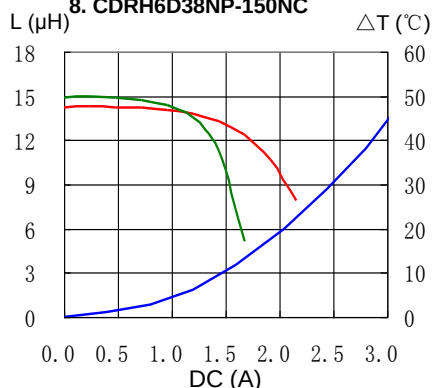
6. CDRH6D38NP-100NC



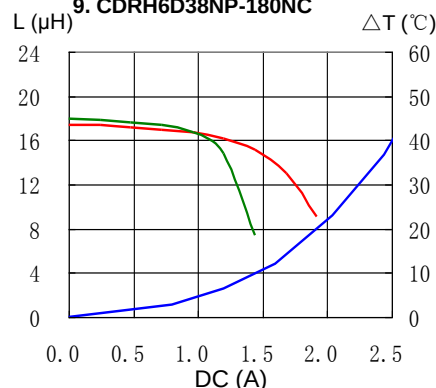
7. CDRH6D38NP-120NC



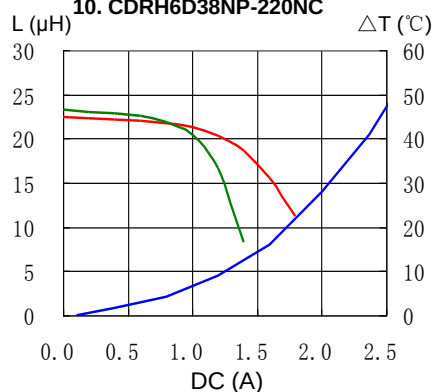
8. CDRH6D38NP-150NC



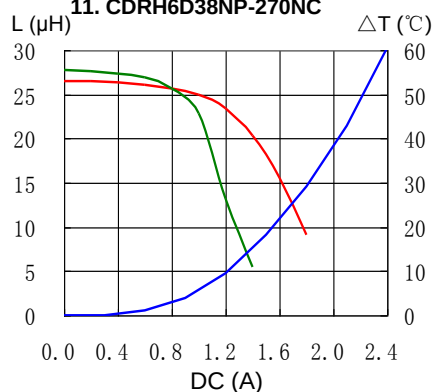
9. CDRH6D38NP-180NC



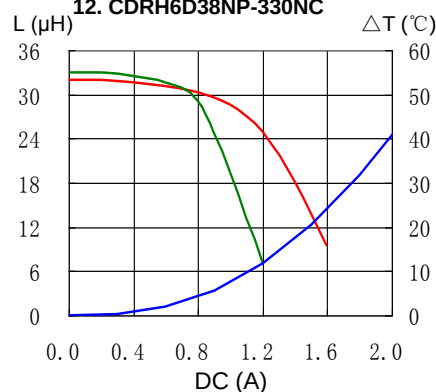
10. CDRH6D38NP-220NC



11. CDRH6D38NP-270NC



12. CDRH6D38NP-330NC

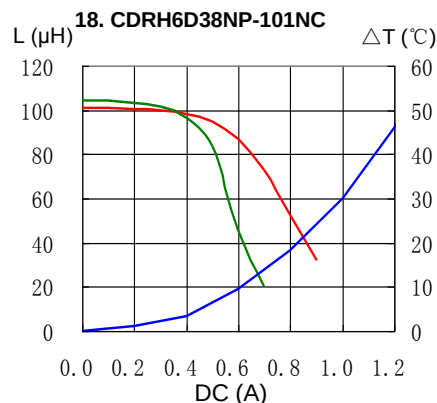
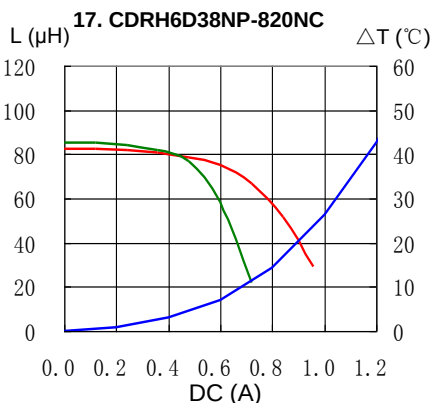
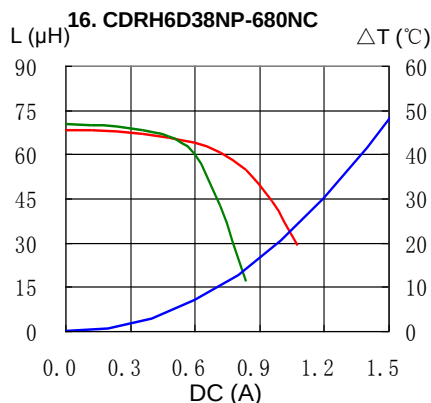
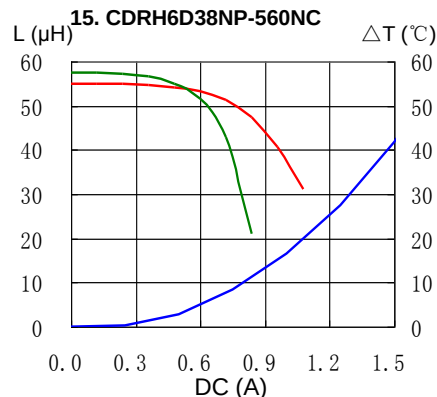
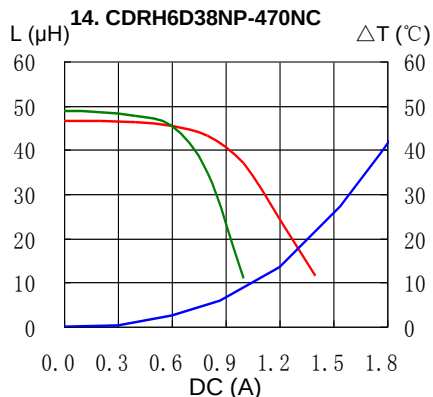
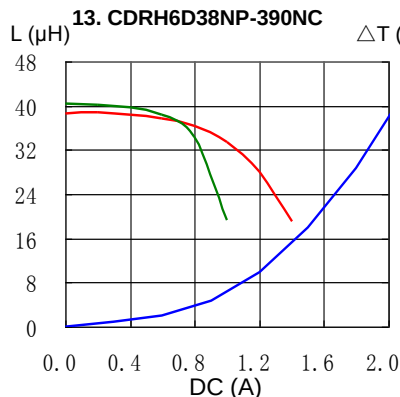


SMD Power Inductor CDRH6D38



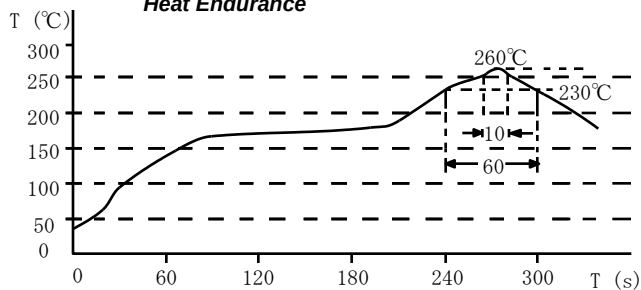
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

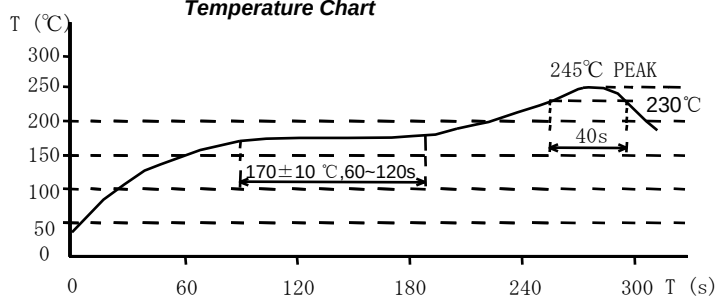


Solder Reflow Condition

Heat Endurance



Temperature Chart



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Hong Kong

Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Saitama(Japan)

Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

Chicago

Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Obernzell

Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Shenzhen

Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel.+65-6296-3388
FAX.+65-6841-4426
sales@sg.sumida.com

Neumarkt

Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei

Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com