



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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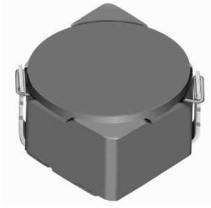
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# SMD Power Inductor CDRH6D38



## 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.

## Environmental Data

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

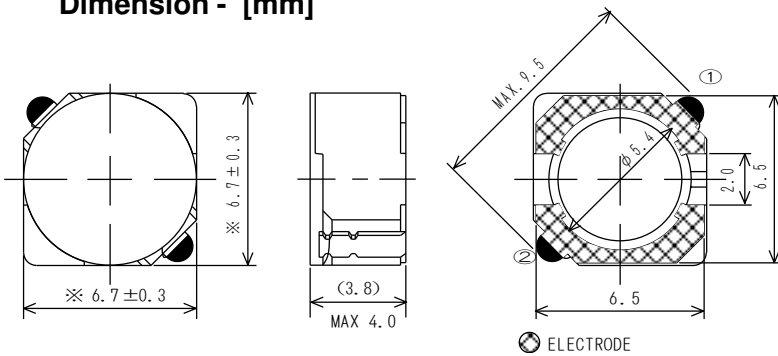
## Packaging

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

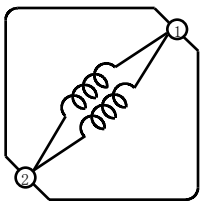
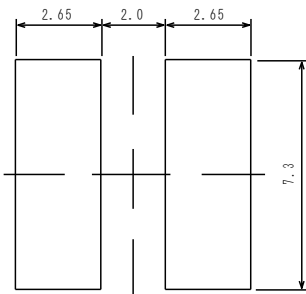
## Applications

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

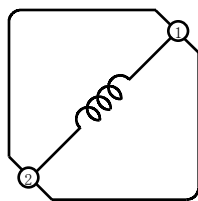
## Dimension - [mm]



## Land pattern and Schematics - [mm]



(3.3µH~15µH)



(18µH~100µH)



### Electrical Characteristics

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

※1. Inductance measuring condition: at 100kHz.

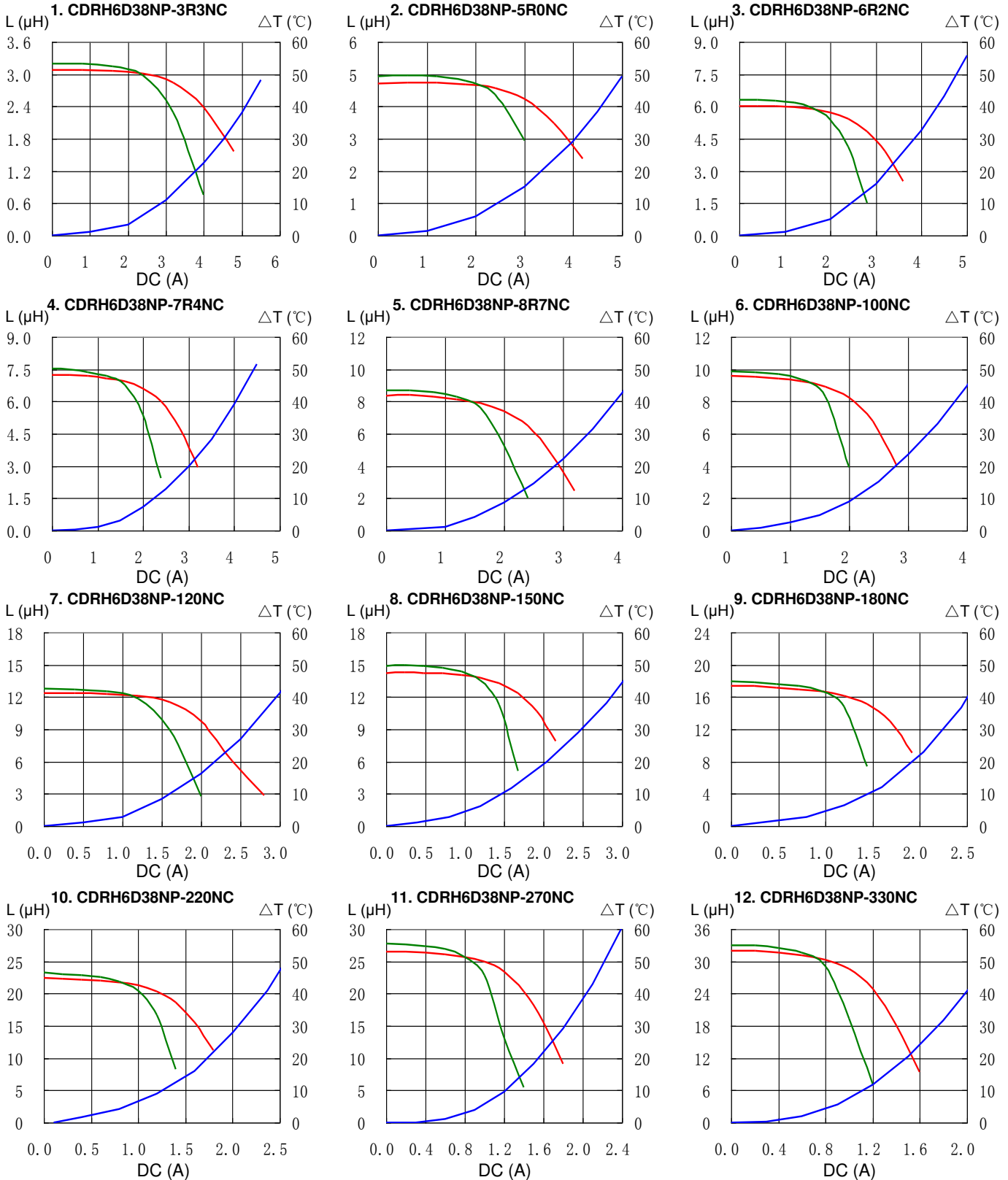
※2. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when  $\Delta t=30^\circ\text{C}$ , whichever is lower ( $T_a=20^\circ\text{C}$ ).

# SMD Power Inductor CDRH6D38



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

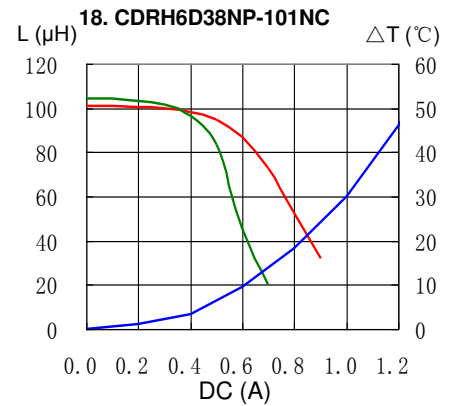
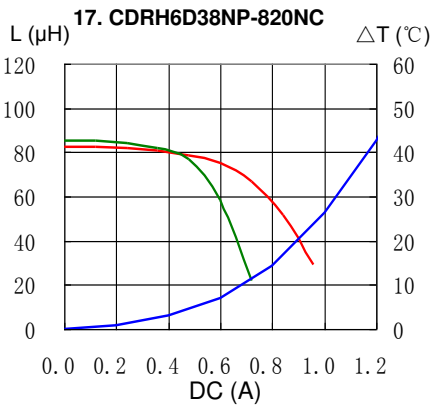
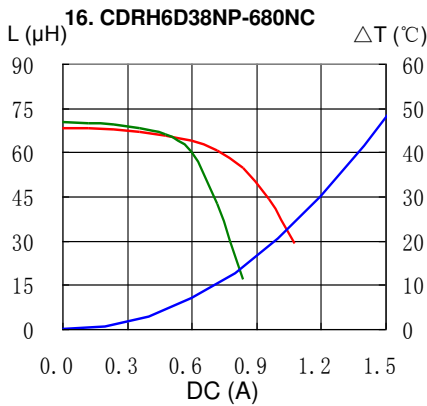
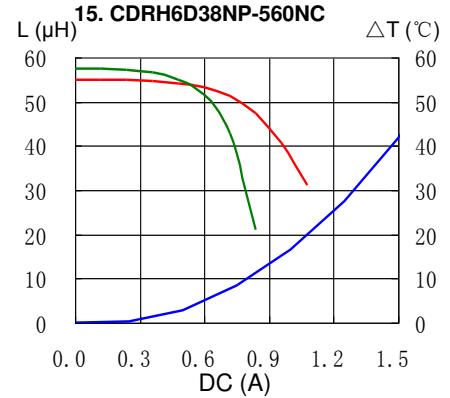
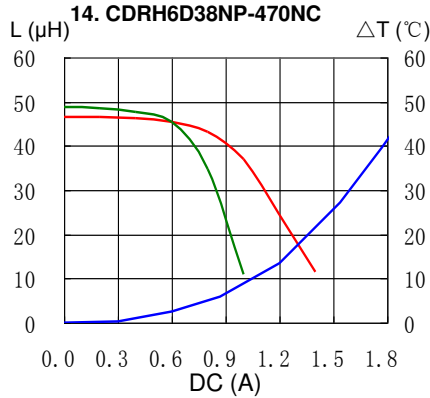
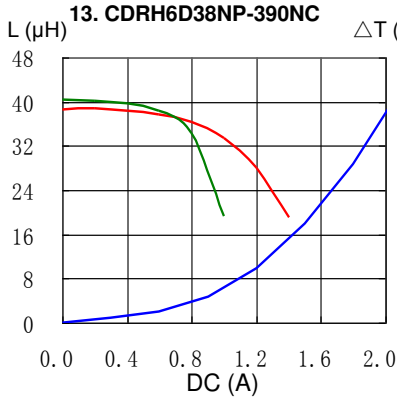


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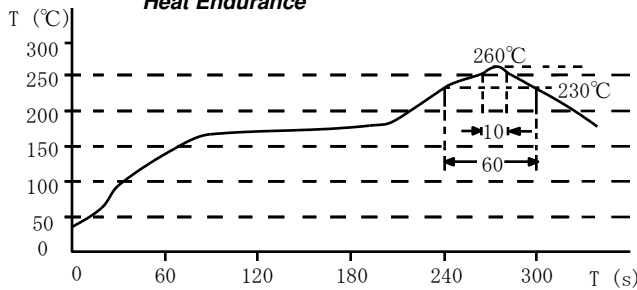
## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

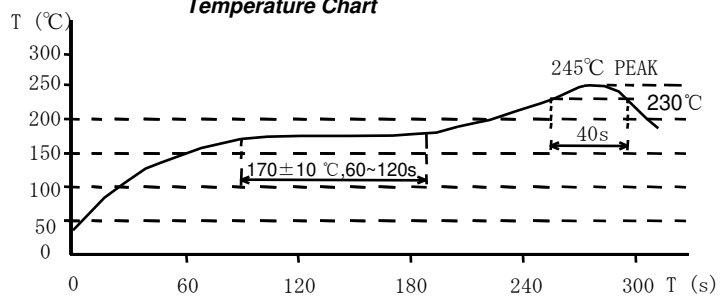


## Solder Reflow Condition

**Heat Endurance**



**Temperature Chart**



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