



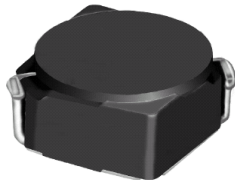
**THE DATASHEET OF
CDRH5D28NP-180NC**



SMD Power Inductor CDRH5D28



Halogen Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.0 × 6.0 × 3.0 mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

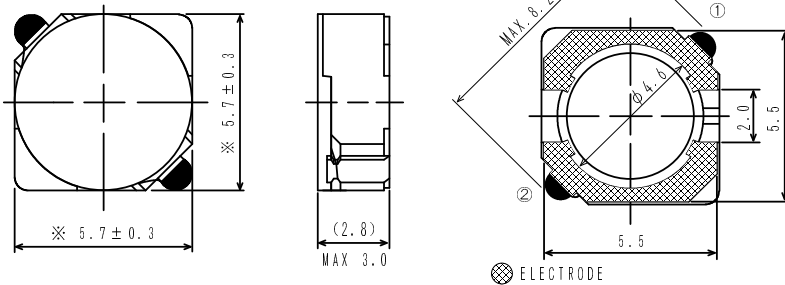
Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 2000pcs per reel

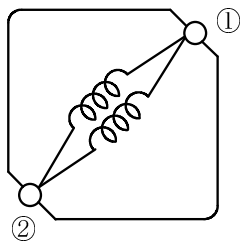
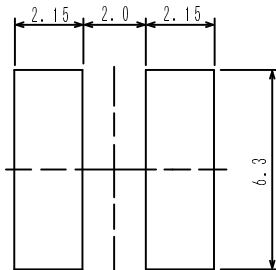
Applications

- Ideally used in Notebook PC, HDD, DSC/DVC, LCD TV, Game machine etc. as DC-DC converter inductors.

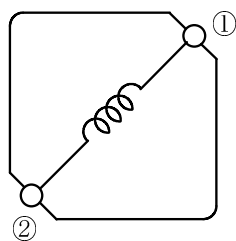
Dimension - [mm]



Land pattern and Schematics - [mm]



(2.5 μH ~ 8.2 μH)



(10 μH ~ 100 μH)

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Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (Ω) [Max.] (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH5D28NP-2R5NC	2R5	2.5 \pm 30%	18m (13m)	2.60
CDRH5D28NP-3R0NC	3R0	3.0 \pm 30%	24m (18m)	2.40
CDRH5D28NP-4R2NC	4R2	4.2 \pm 30%	31m (23m)	2.20
CDRH5D28NP-5R3NC	5R3	5.3 \pm 30%	38m (28m)	1.90
CDRH5D28NP-6R2NC	6R2	6.2 \pm 30%	45m (33m)	1.80
CDRH5D28NP-8R2NC	8R2	8.2 \pm 30%	53m (39m)	1.60
CDRH5D28NP-100NC	100	10 \pm 30%	65m (48m)	1.30
CDRH5D28NP-120NC	120	12 \pm 30%	76m (56m)	1.20
CDRH5D28NP-150NC	150	15 \pm 30%	103m (76m)	1.10
CDRH5D28NP-180NC	180	18 \pm 30%	110m (82m)	1.00
CDRH5D28NP-220NC	220	22 \pm 30%	122m (90m)	0.90
CDRH5D28NP-270NC	270	27 \pm 30%	175m(130m)	0.85
CDRH5D28NP-330NC	330	33 \pm 30%	189m(140m)	0.75
CDRH5D28NP-390NC	390	39 \pm 30%	212m(157m)	0.70
CDRH5D28NP-470NC	470	47 \pm 30%	250m(185m)	0.62
CDRH5D28NP-560NC	560	56 \pm 30%	305m(226m)	0.58
CDRH5D28NP-680NC	680	68 \pm 30%	355m(263m)	0.52
CDRH5D28NP-820NC	820	82 \pm 30%	463m(343m)	0.46
CDRH5D28NP-101NC	101	100 \pm 30%	520m(385m)	0.42

※1. Inductance measuring condition: at 100kHz.

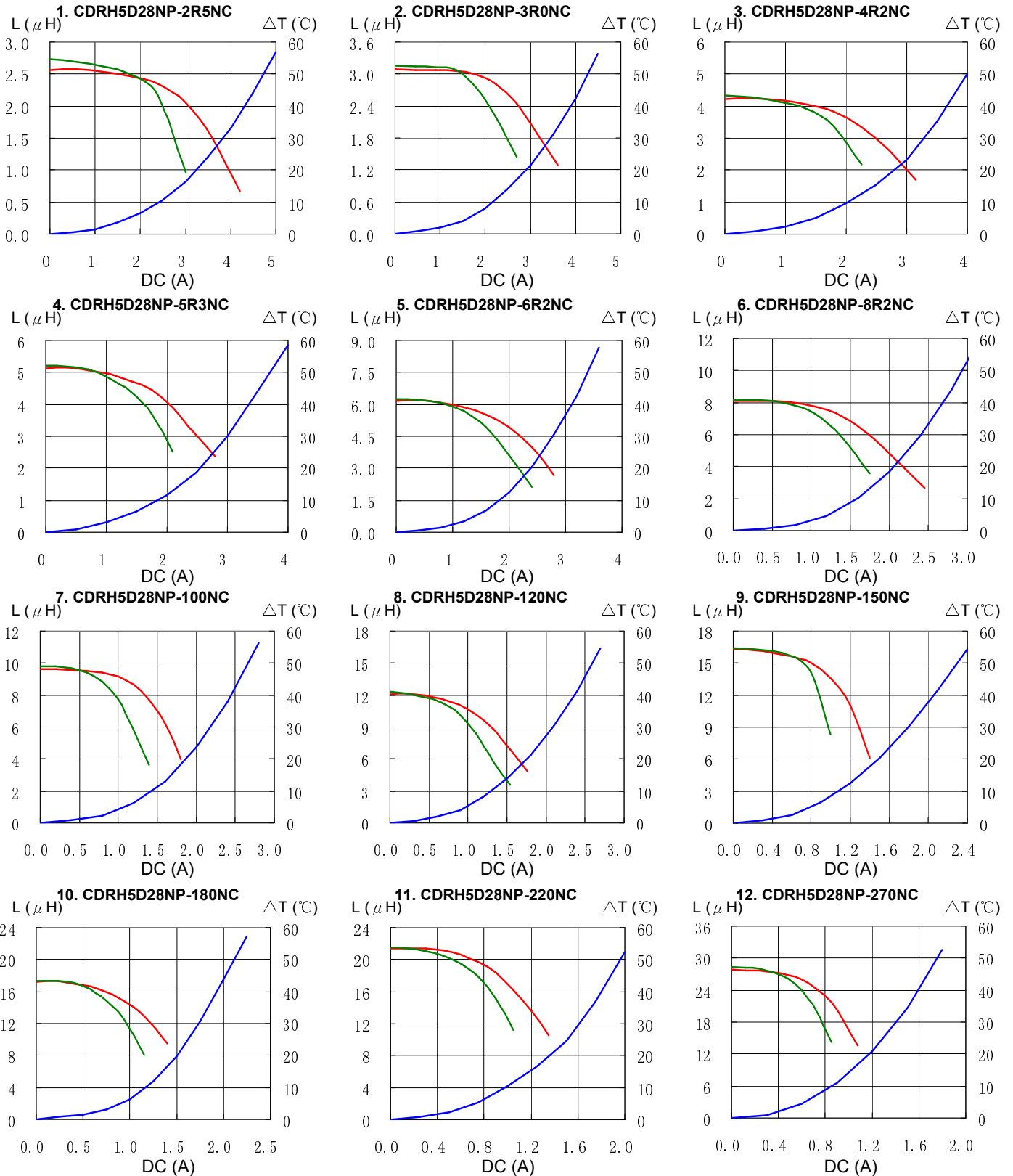
※2. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when $\Delta t=30^{\circ}\text{C}$, whichever is lower ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



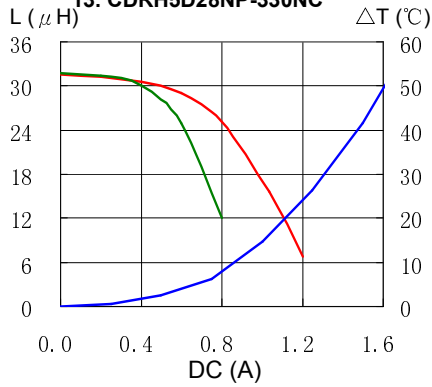
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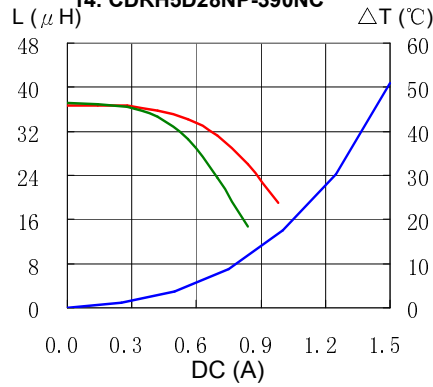
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

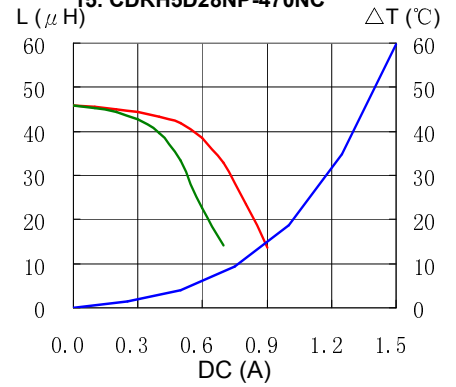
13. CDRH5D28NP-330NC



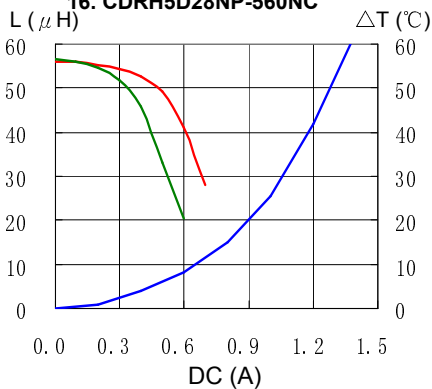
14. CDRH5D28NP-390NC



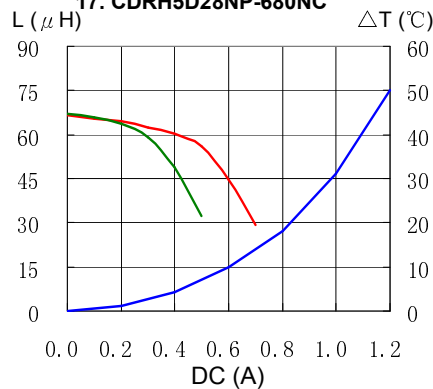
15. CDRH5D28NP-470NC



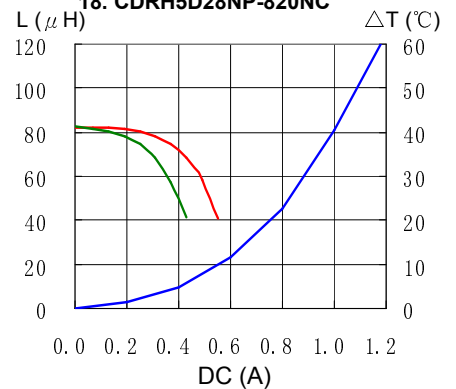
16. CDRH5D28NP-560NC



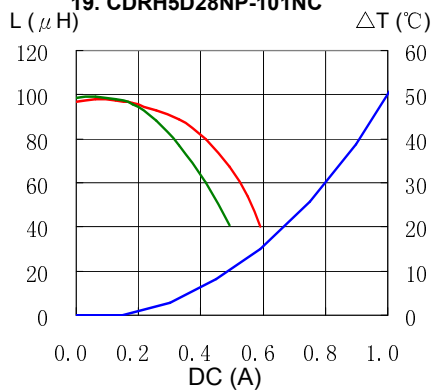
17. CDRH5D28NP-680NC



18. CDRH5D28NP-820NC



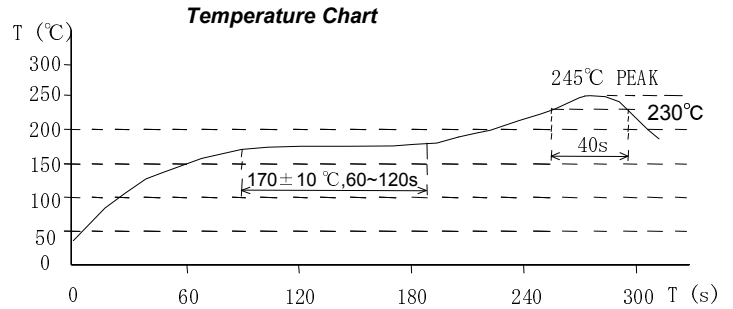
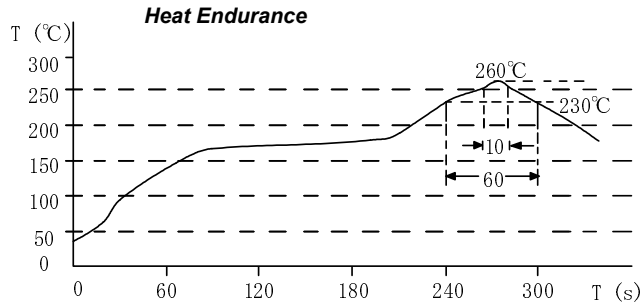
19. CDRH5D28NP-101NC



SMD Power Inductor CDRH5D28



Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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