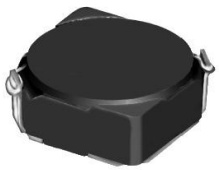
THE DATASHEET OF

CDRH6D28NP-5R0NC

SMD Power Inductor
CDRH6D28

RoHS



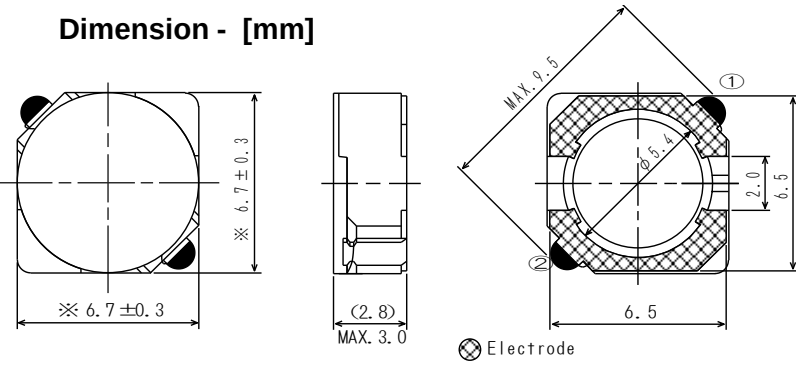
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:7.0 × 7.0 × 3.0 mm Max.
- Product weight: 0.44g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

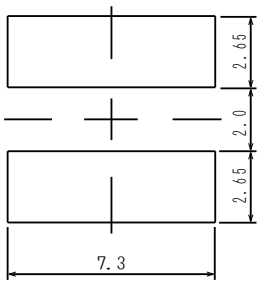
Packaging
- Carrier tape and reel packaging
- 13"diameter reel
- 1500pcs per reel

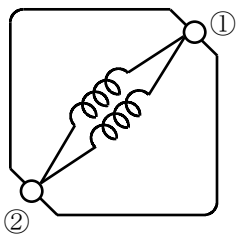
Applications
- Ideally used in MP3, PDA ,HDD,DSC/DVC, Notebook PC etc as DC-DC converter inductors.

Dimension - [mm]

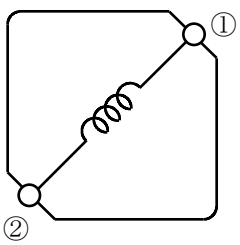


Land pattern and Schematics - [mm]





(3.0μH～6.0μH)



(7.3μH～100μH)

Electrical Characteristics

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

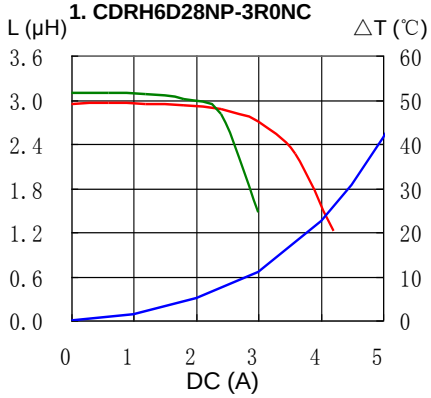
※1. Inductance measuring condition: at 100kHz.

※2. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when △t=30℃, whichever is lower (Ta=20℃).

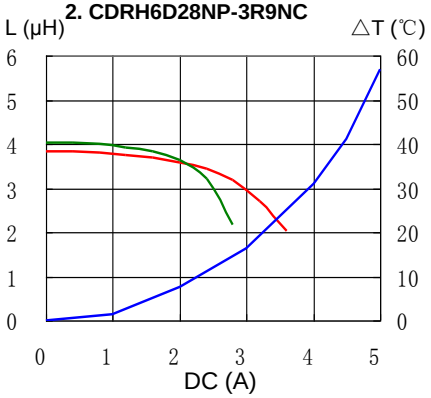
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

1. CDRH6D28NP-3R0NC



2. CDRH6D28NP-3R9NC



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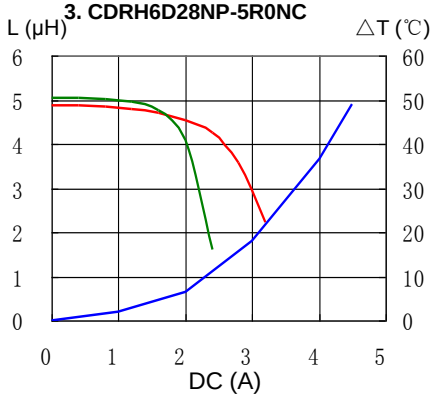
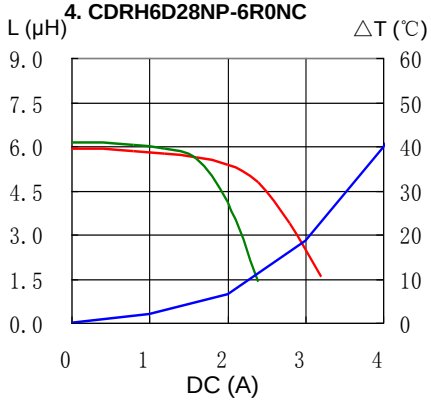
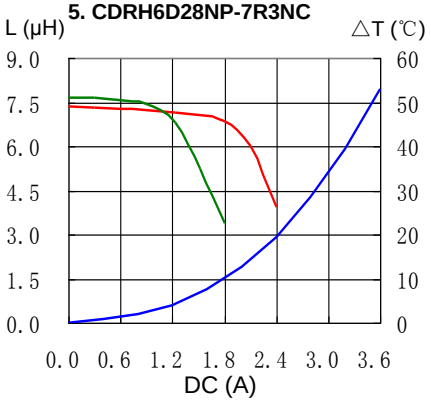


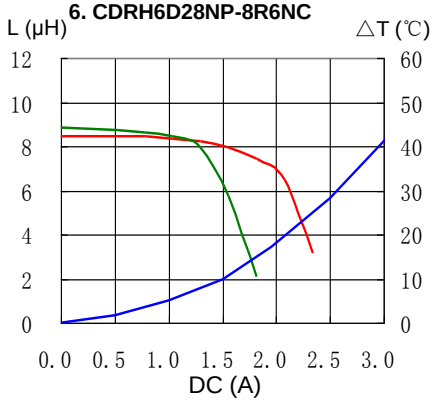
4. CDRH6D28NP-6R0NC



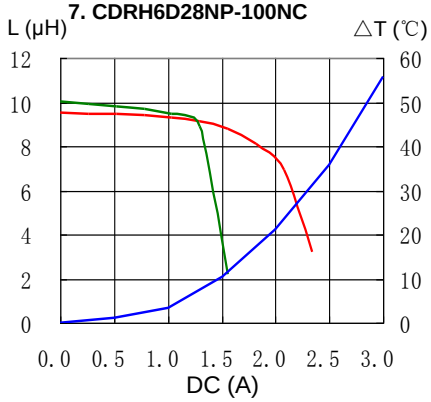
5. CDRH6D28NP-7R3NC



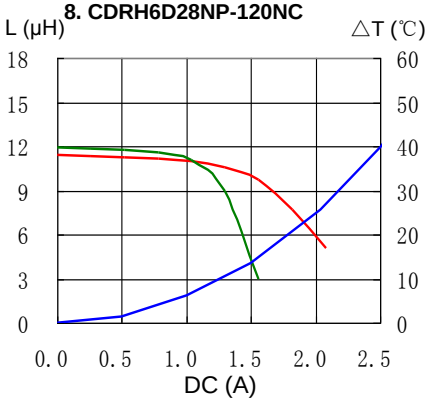
6. CDRH6D28NP-8R6NC



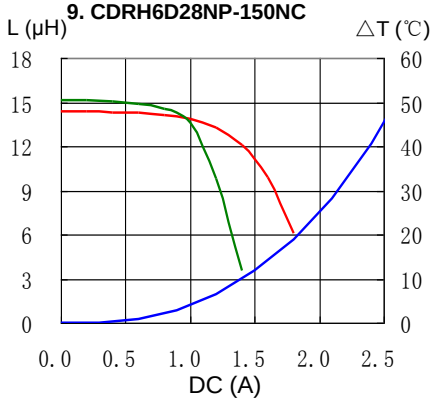
7. CDRH6D28NP-100NC



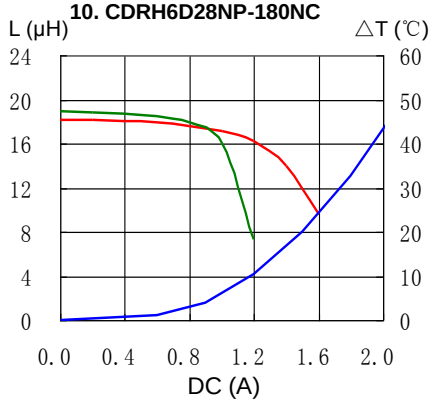
8. CDRH6D28NP-120NC



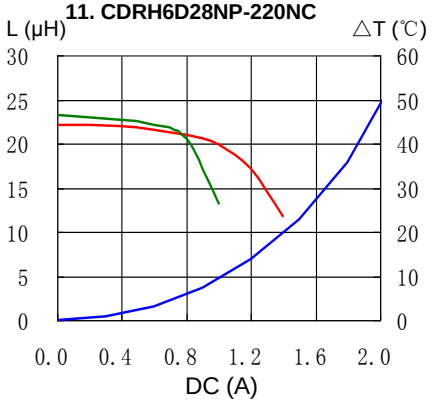
9. CDRH6D28NP-150NC



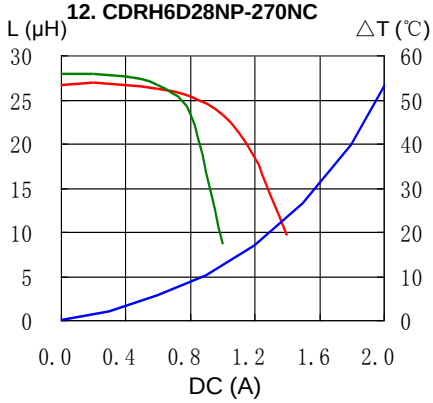
10. CDRH6D28NP-180NC



11. CDRH6D28NP-220NC



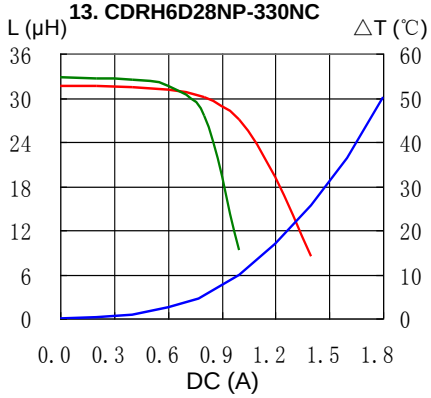
12. CDRH6D28NP-270NC



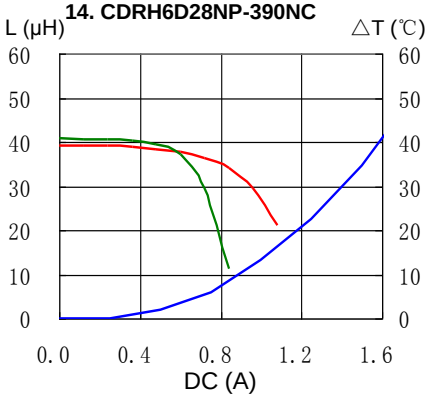
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

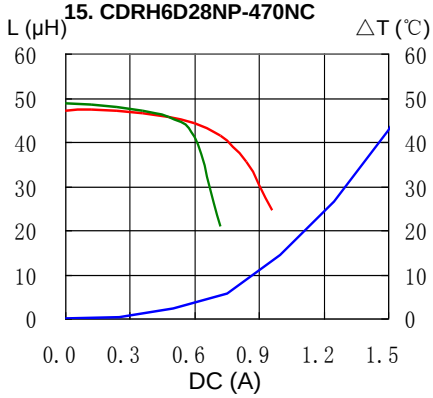
13. CDRH6D28NP-330NC



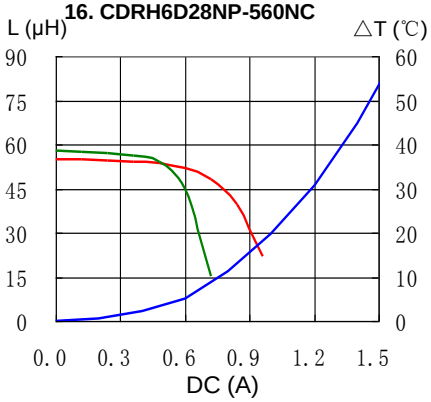
14. CDRH6D28NP-390NC



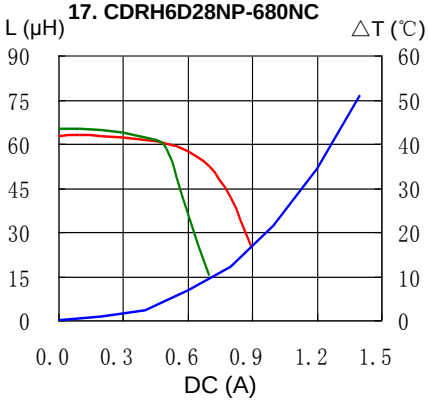
15. CDRH6D28NP-470NC



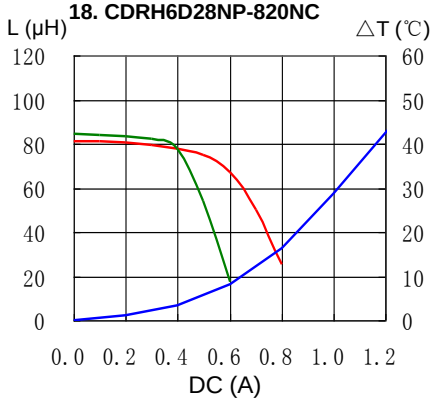
16. CDRH6D28NP-560NC



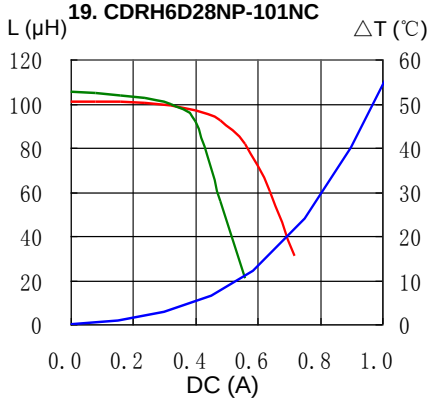
17. CDRH6D28NP-680NC



18. CDRH6D28NP-820NC

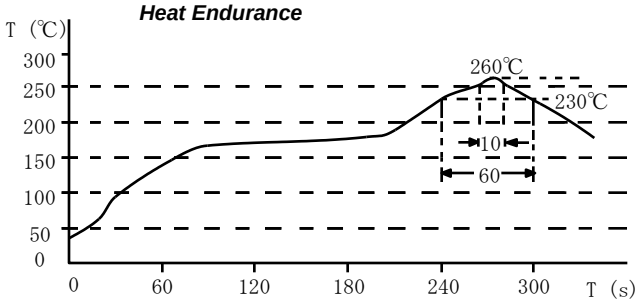


19. CDRH6D28NP-101NC

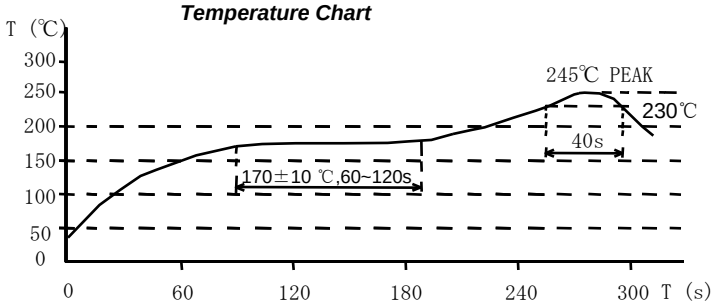


Solder Reflow Condition

Heat Endurance



Temperature Chart



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Hong Kong
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FAX.+852-2565-9600
sales@hk.sumida.com

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

Shenzhen
Tel.+86-755-8291-0228
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Taipei
Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

Saitama(Japan)
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FAX.+81-48-691-7340
sales@jp.sumida.com

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

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

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

Chicago
Tel.+1-847-545-6700
FAX. +1-847-545-6720
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Obernzell
Tel.+49-8591-937-0
FAX. +49-8591-937-103
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