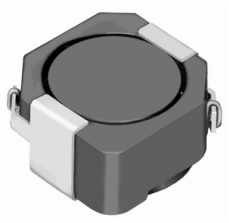
THE DATASHEET OF

CDRH5D28RNP-100NC

SMD Power Inductor
CDRH5D28R

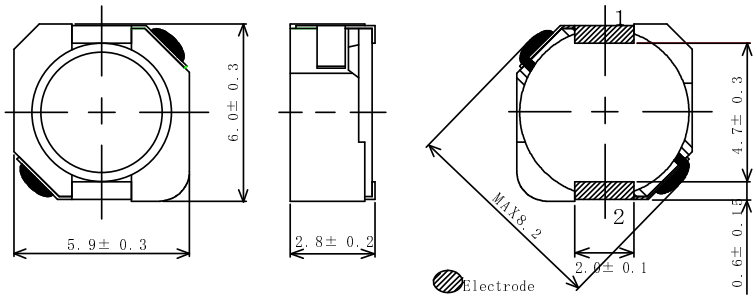
RoHS

Halogen Free

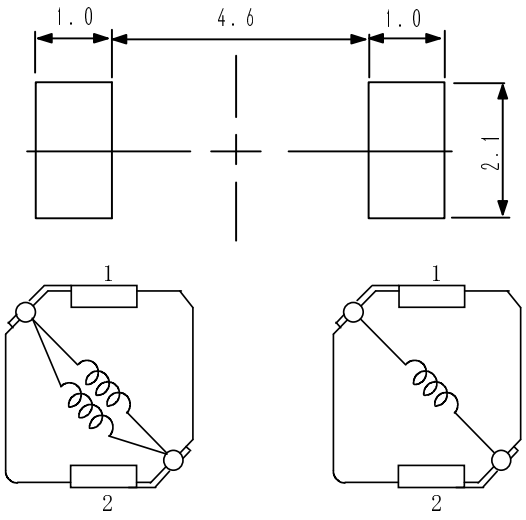


Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:6.3 × 6.2 × 3.0 mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



Land pattern and Schematics - [mm]



(2.5μH～10μH) (12μH～100μH)

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
- 13.0"diameter reel
- 2000pcs per reel

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

Revised: 7-Jan-14

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) [Max.] (Typ.) (at 20℃)	Rated Current (A) ※2
CDRH5D28RNP-2R5NC	2R5	2.5±30%	17.6(13)	2.60
CDRH5D28RNP-3R3NC	3R3	3.3±30%	20.3(15)	2.30
CDRH5D28RNP-4R0NC	4R0	4.0±30%	27.0(20)	2.10
CDRH5D28RNP-5R0NC	5R0	5.0±30%	31.1(23)	1.85
CDRH5D28RNP-6R0NC	6R0	6.0±30%	41.9(31)	1.70
CDRH5D28RNP-8R0NC	8R0	8.0±30%	49.9(37)	1.50
CDRH5D28RNP-100NC	100	10±30%	54.0(40)	1.30
CDRH5D28RNP-120NC	120	12±30%	71.6(53)	1.20
CDRH5D28RNP-150NC	150	15±30%	82.4(61)	1.10
CDRH5D28RNP-180NC	180	18±30%	101.5(75)	1.05
CDRH5D28RNP-220NC	220	22±30%	119.0(88)	0.95
CDRH5D28RNP-270NC	270	27±30%	146.0(108)	0.85
CDRH5D28RNP-330NC	330	33±30%	182.5(135)	0.76
CDRH5D28RNP-390NC	390	39±30%	209.5(155)	0.68
CDRH5D28RNP-470NC	470	47±30%	229.5(170)	0.60
CDRH5D28RNP-560NC	560	56±30%	305.0(226)	0.55
CDRH5D28RNP-680NC	680	68±30%	351.0(260)	0.48
CDRH5D28RNP-820NC	820	82±30%	418.5(310)	0.45
CDRH5D28RNP-101NC	101	100±30%	520.0(385)	0.40

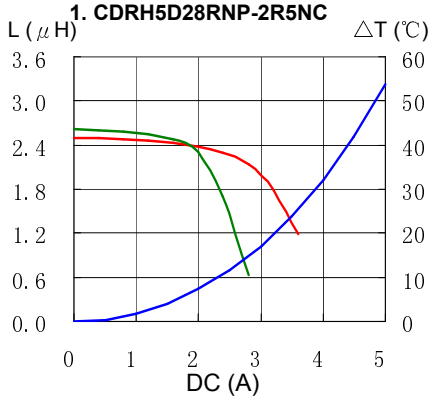
※1. Inductance measuring condition: at 100kHz.

※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℃).

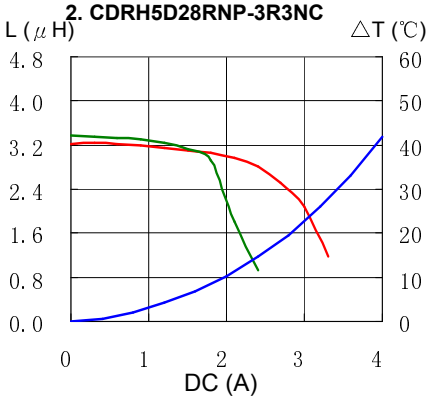
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

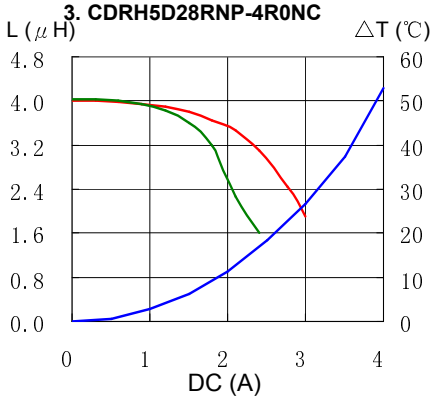
1. CDRH5D28RNP-2R5NC



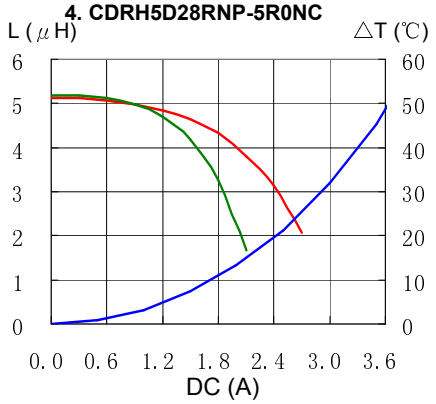
2. CDRH5D28RNP-3R3NC



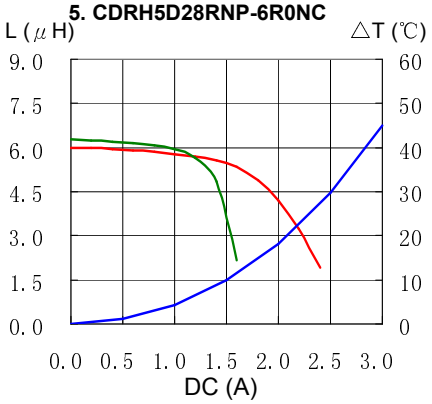
3. CDRH5D28RNP-4R0NC



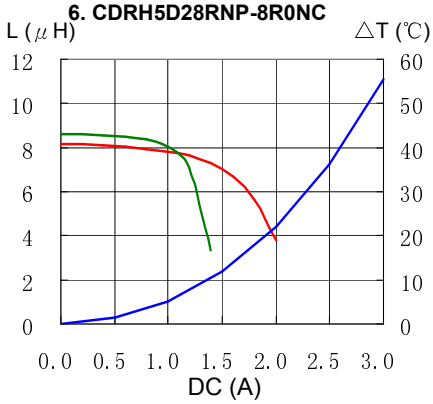
4. CDRH5D28RNP-5R0NC



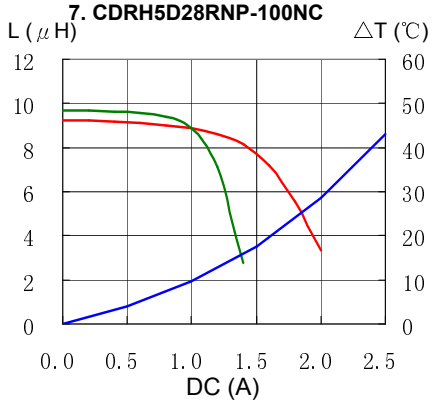
5. CDRH5D28RNP-6R0NC



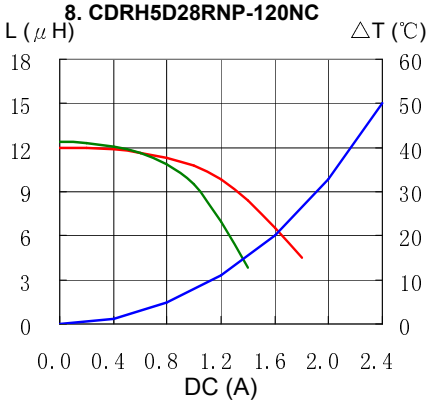
6. CDRH5D28RNP-8R0NC



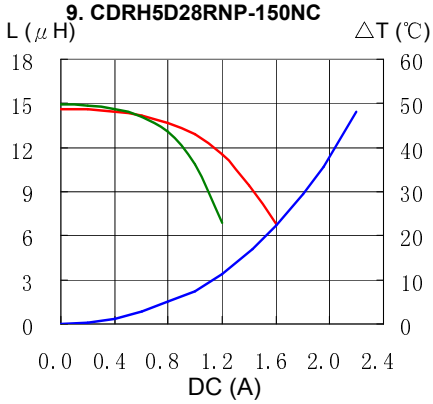
7. CDRH5D28RNP-100NC



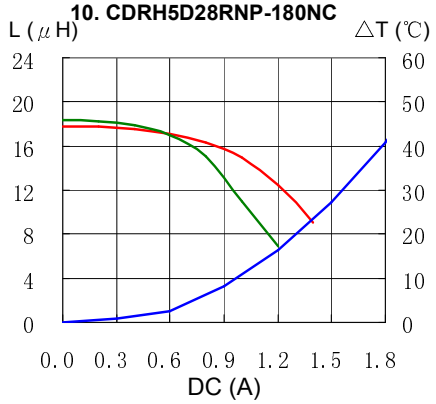
8. CDRH5D28RNP-120NC



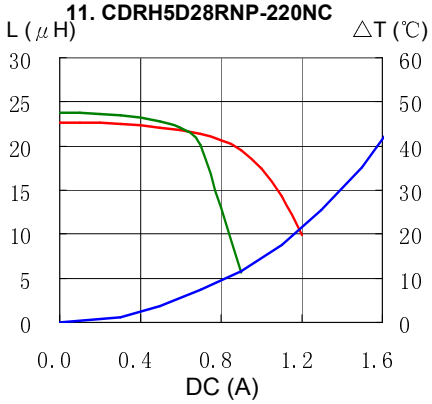
9. CDRH5D28RNP-150NC



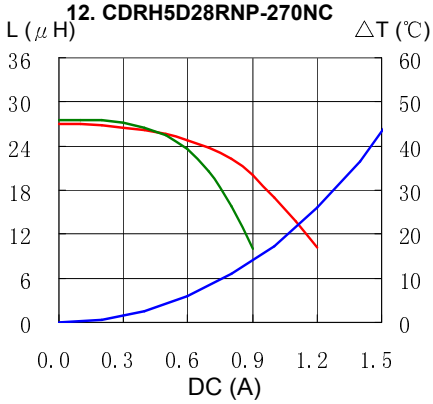
10. CDRH5D28RNP-180NC



11. CDRH5D28RNP-220NC



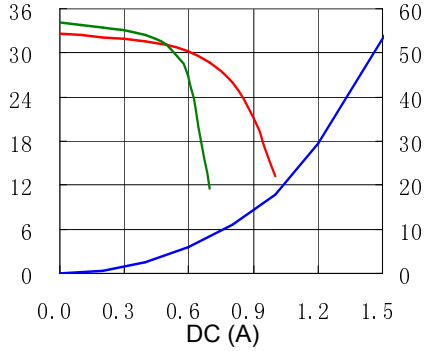
12. CDRH5D28RNP-270NC



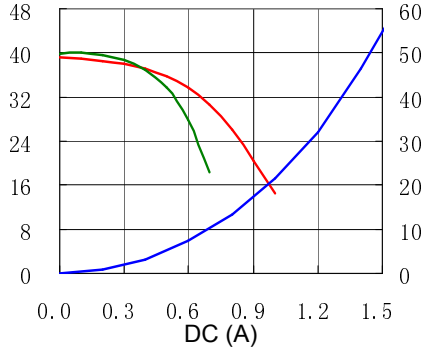
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

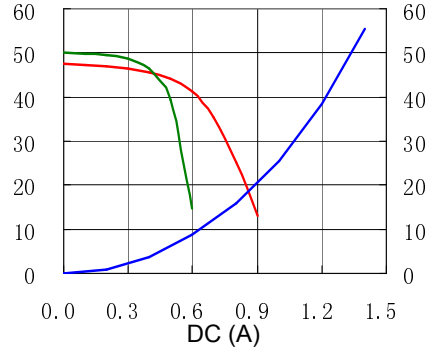
13. CDRH5D28RNP-330NC



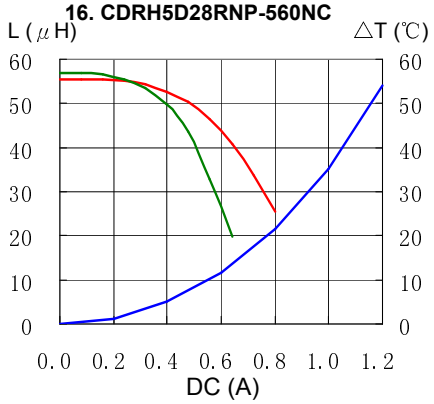
14. CDRH5D28RNP-390NC



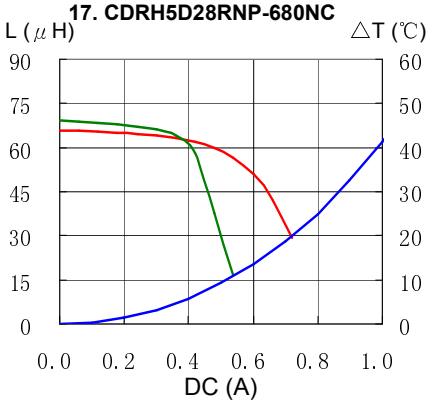
15. CDRH5D28RNP-470NC



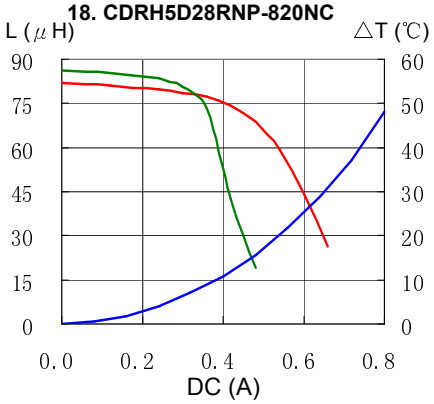
16. CDRH5D28RNP-560NC



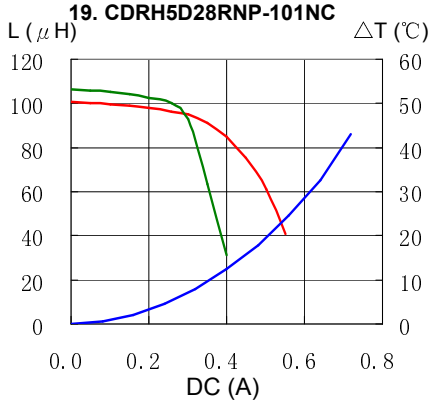
17. CDRH5D28RNP-680NC



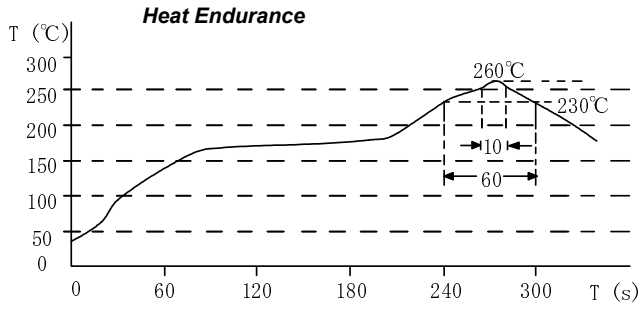
18. CDRH5D28RNP-820NC

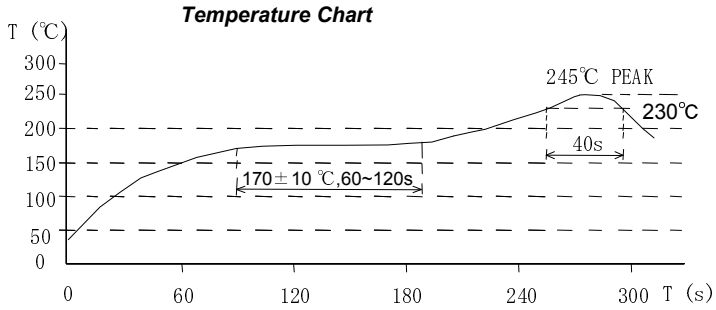


19. CDRH5D28RNP-101NC



Solder Reflow Condition





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

Hong Kong
Tel.+852-2880-6781
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
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

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

Saitama(Japan)
Tel.+81-48-691-7300
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
sales@us.sumida.com

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

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

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- View CDRH5D28RNP-100NC on WIN SOURCE
- Sumida America Components Inc. Information

Optimize Your Supply Chain with WIN SOURCE Solutions

- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management