THE DATASHEET OF

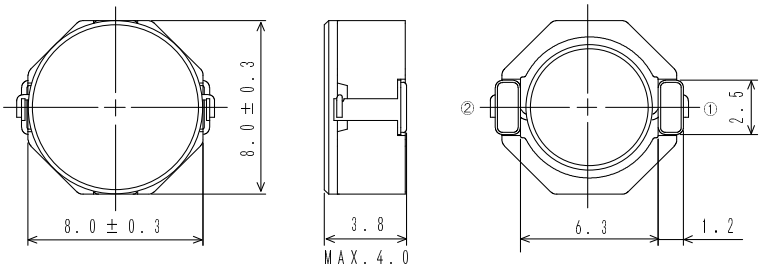
CDRH8D38NP-6R0NC

SMD Power Inductor
CDRH8D38

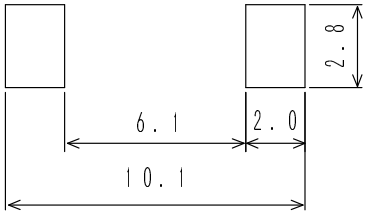
RoHS

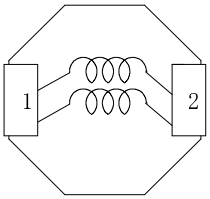
Halogen Free

Dimension - [mm]

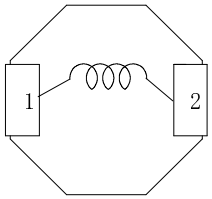


Land pattern and Schematics - [mm]





(1.8μH～10μH)



(15μH～100μH)

Description
- Ferrite drum core construction.
- Magnetically shielded.
- L×W×H: 8.3×8.3×4.0 mm Max.
- Product weight:0.9 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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
- 1000pcs per reel

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

Revised: 7-Jan-14

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				(at20℃)	(at105℃)	
CDRH8D38NP－1R8NC	1R8	1.8μH±30%	15.6(12.5)	7.00	6.20	6.80
CDRH8D38NP－2R5NC	2R5	2.5μH±30%	17.5(14)	6.50	5.50	6.00
CDRH8D38NP－3R5NC	3R5	3.5μH±30%	24(19)	5.00	4.40	5.20
CDRH8D38NP－4R7NC	4R7	4.7μH±30%	29(23)	4.60	4.00	4.40
CDRH8D38NP－6R0NC	6R0	6.0μH±30%	32(25)	4.20	3.50	4.00
CDRH8D38NP－100NC	100	10μH±30%	48(38)	3.00	2.60	3.20
CDRH8D38NP－150NC	150	15μH±30%	67(53)	2.75	2.30	2.50
CDRH8D38NP－220NC	220	22μH±30%	105(84)	2.30	1.88	2.00
CDRH8D38NP－330NC	330	33μH±30%	157(125)	1.75	1.52	1.60
CDRH8D38NP－470NC	470	47μH±30%	189(151)	1.52	1.28	1.42
CDRH8D38NP－680NC	680	68μH±30%	290(232)	1.30	1.10	1.08
CDRH8D38NP－101NC	101	100μH±30%	410(328)	1.05	0.88	0.88

※1. Inductance measuring condition: at 100kHz.

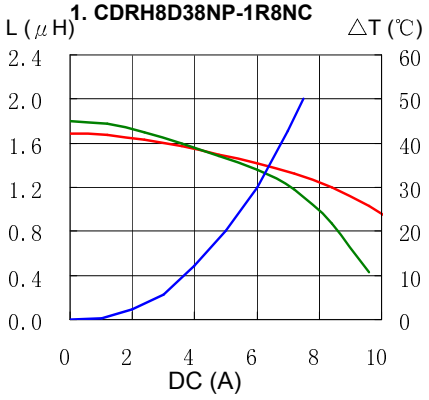
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is △t＝40℃(Ta＝20℃).

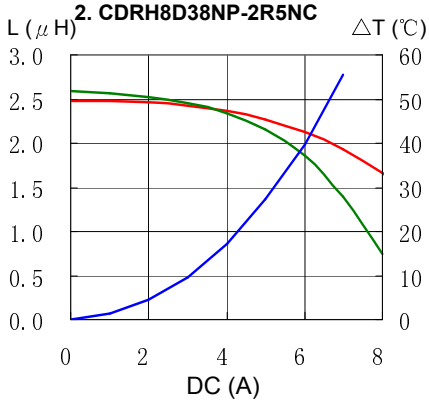
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

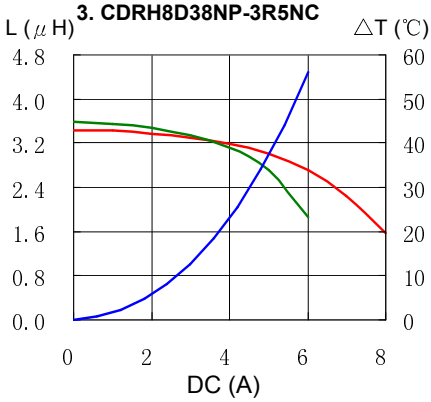
1. CDRH8D38NP-1R8NC



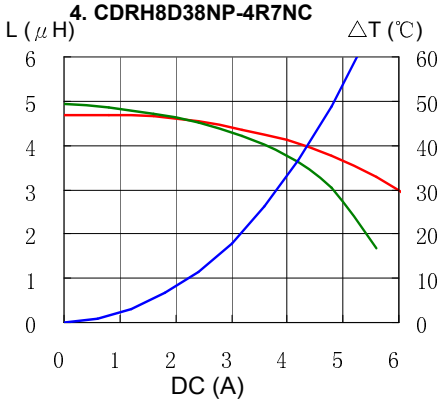
2. CDRH8D38NP-2R5NC



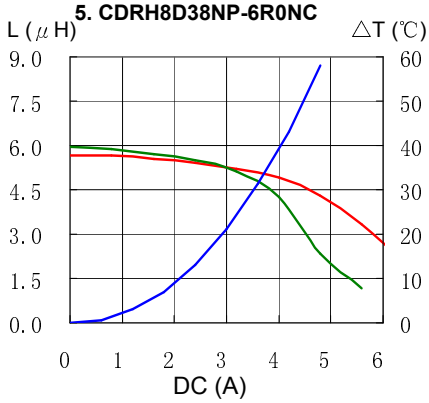
3. CDRH8D38NP-3R5NC



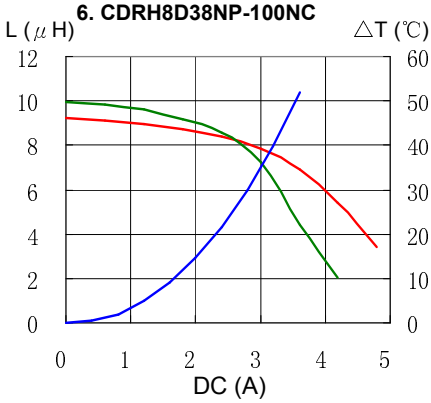
4. CDRH8D38NP-4R7NC



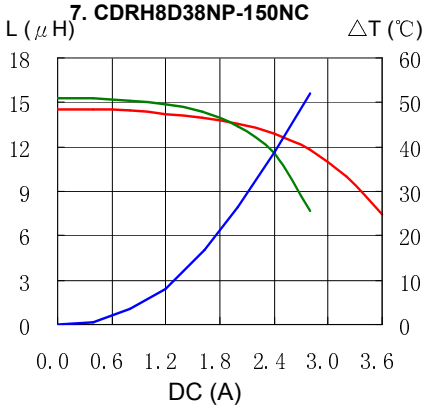
5. CDRH8D38NP-6R0NC



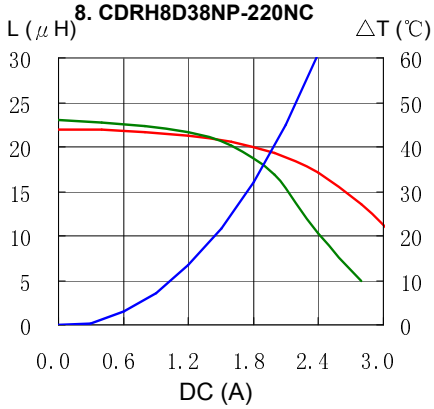
6. CDRH8D38NP-100NC



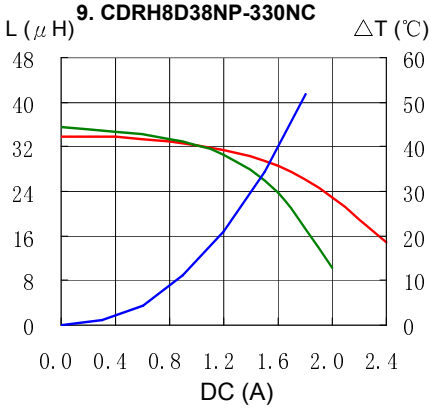
7. CDRH8D38NP-150NC



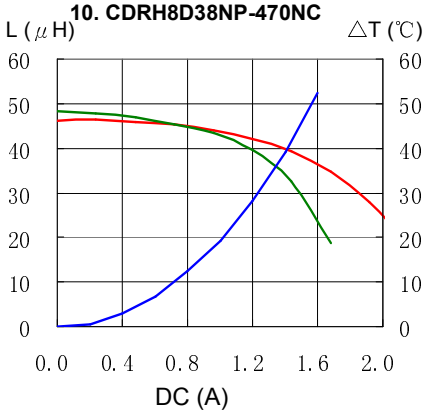
8. CDRH8D38NP-220NC



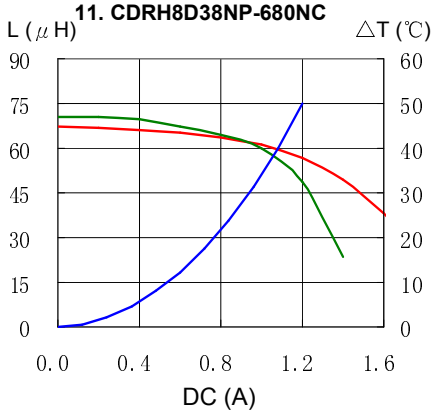
9. CDRH8D38NP-330NC



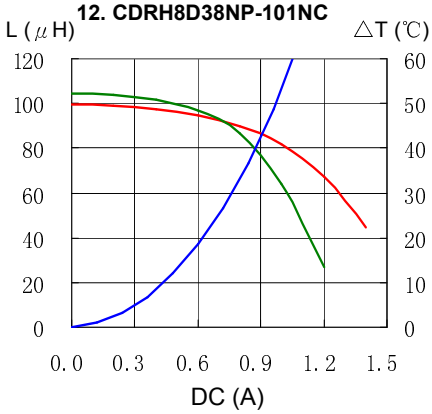
10. CDRH8D38NP-470NC



11. CDRH8D38NP-680NC

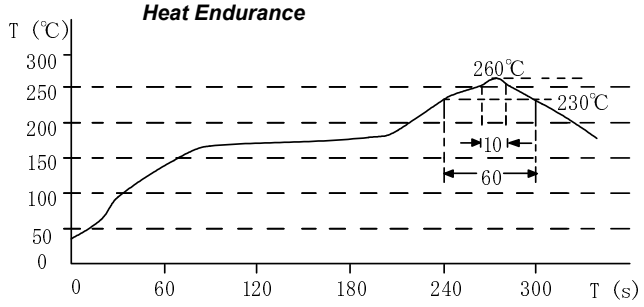


12. CDRH8D38NP-101NC

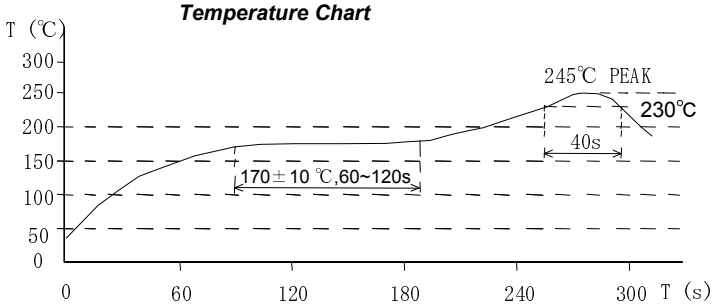


Solder Reflow Condition

Heat Endurance



Temperature Chart



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 CDRH8D38NP-6R0NC 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