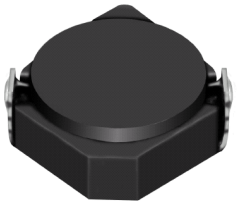
SMD Power Inductor
CDRH3D18

RoHS



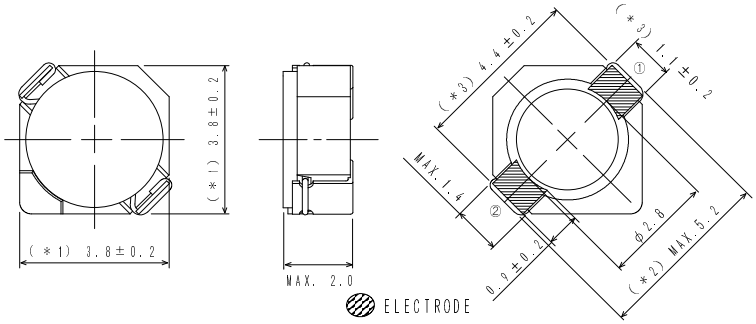
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:4.0 × 4.0 × 2.0 mm Max.
- Product weight: 0.1g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data
- Operating temperature range: -40℃~+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+105℃
- Solder reflow temperature: 260 ℃ peak.

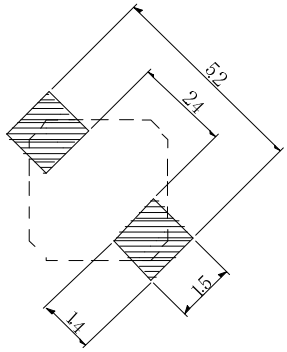
Packaging
- Carrier tape and reel packaging
- 7.0"diameter reel
- 1000pcs per reel

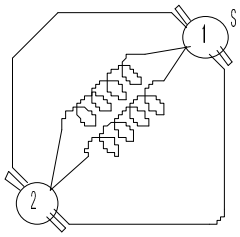
Applications
- Ideally used in Mobilephone,PDA,MP3, DSC/DVC, etc as DC-DC converter inductors.

Dimension - [mm]

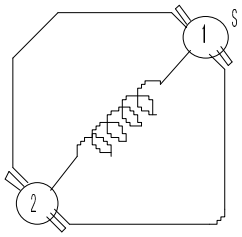


Land pattern and Schematics - [mm]





(1.0μH～6.8μH)



(10μH～47μH)

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
				at 20℃	at 100℃	
CDRH3D18NP-1R0NC	A	1.0±30%	50(40)	2.80	2.00	2.40
CDRH3D18NP-2R2NC	B	2.2±30%	63(50)	1.80	1.30	2.00
CDRH3D18NP-3R0NC	C	3.0±30%	69(55)	1.60	1.20	1.80
CDRH3D18NP-4R7NC	D	4.7±30%	107.5(86)	1.35	0.95	1.35
CDRH3D18NP-6R8NC	E	6.8±30%	150(120)	1.10	0.80	1.10
CDRH3D18NP-100NC	F	10.0±30%	205(164)	0.90	0.65	0.90
CDRH3D18NP-120NC	G	12.0±30%	275(220)	0.80	0.60	0.80
CDRH3D18NP-150NC	H	15.0±30%	302(241)	0.75	0.55	0.75
CDRH3D18NP-220NC	I	22.0±30%	424(339)	0.60	0.45	0.60
CDRH3D18NP-330NC	J	33.0±30%	640(512)	0.50	0.35	0.45
CDRH3D18NP-470NC	K	47.0±30%	964(771)	0.40	0.30	0.35

※1. Inductance measuring condition: at 100kHz.

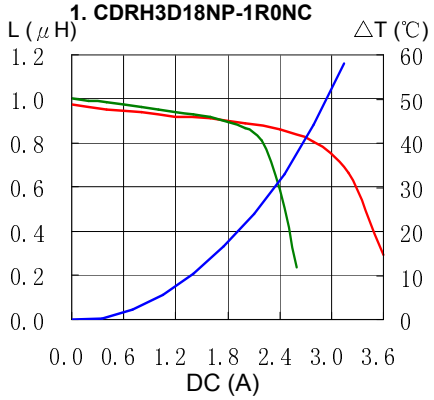
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

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

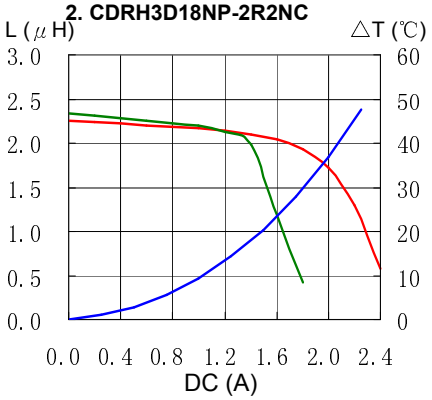
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

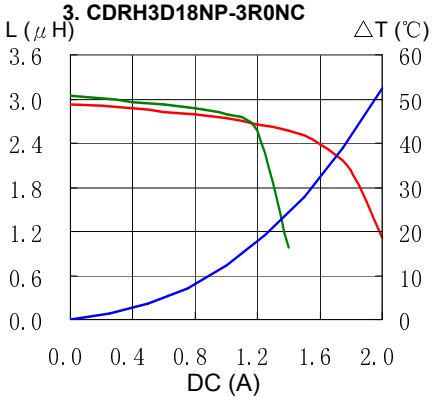
1. CDRH3D18NP-1R0NC



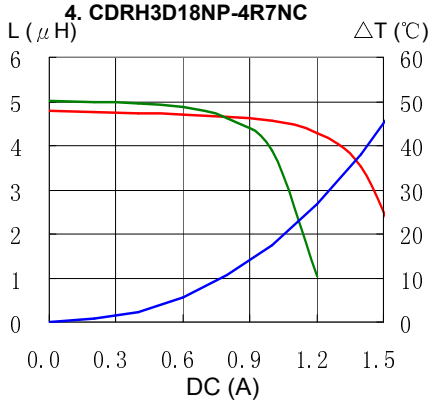
2. CDRH3D18NP-2R2NC



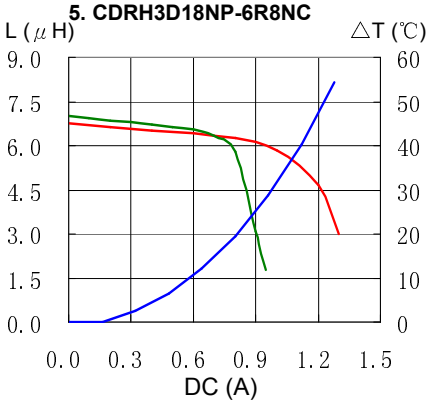
3. CDRH3D18NP-3R0NC



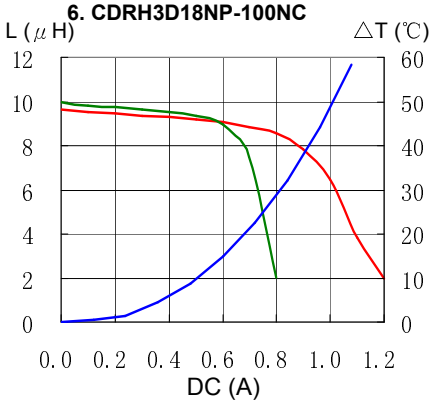
4. CDRH3D18NP-4R7NC



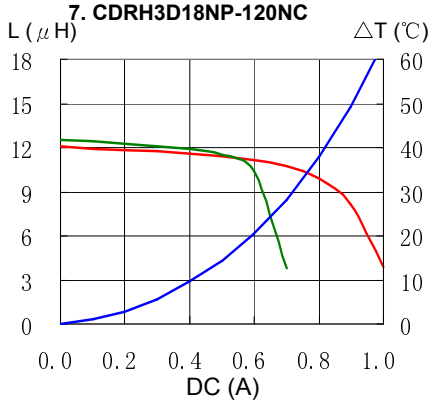
5. CDRH3D18NP-6R8NC



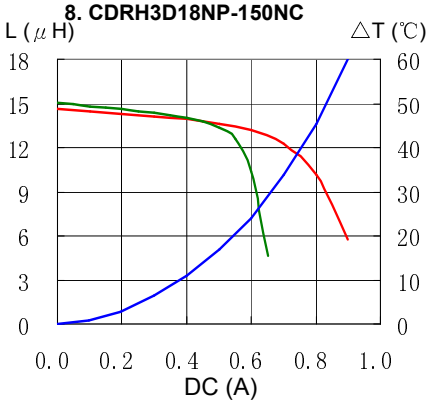
6. CDRH3D18NP-100NC



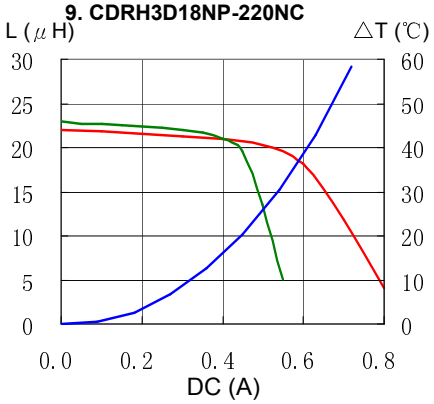
7. CDRH3D18NP-120NC



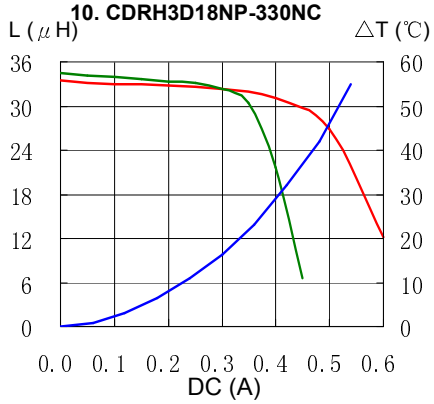
8. CDRH3D18NP-150NC



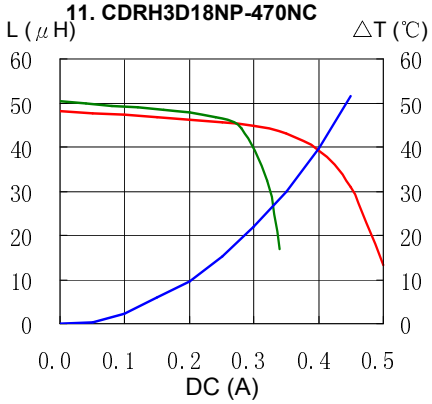
9. CDRH3D18NP-220NC



10. CDRH3D18NP-330NC

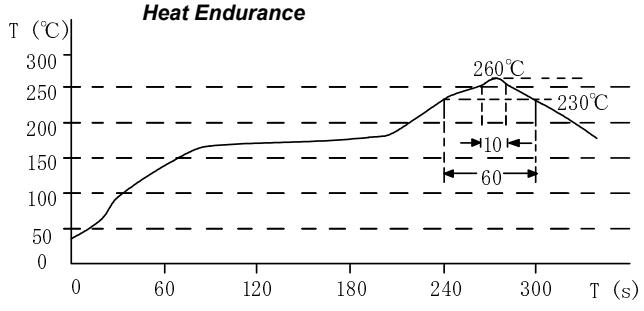


11. CDRH3D18NP-470NC

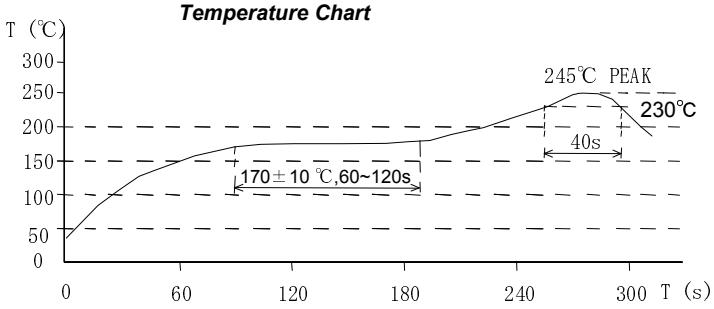


Solder Reflow Condition

Heat Endurance



Temperature Chart



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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