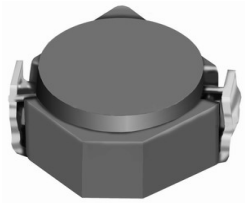
SMD Power Inductor
CDRH2D18/HP

RoHS

Halogen Free



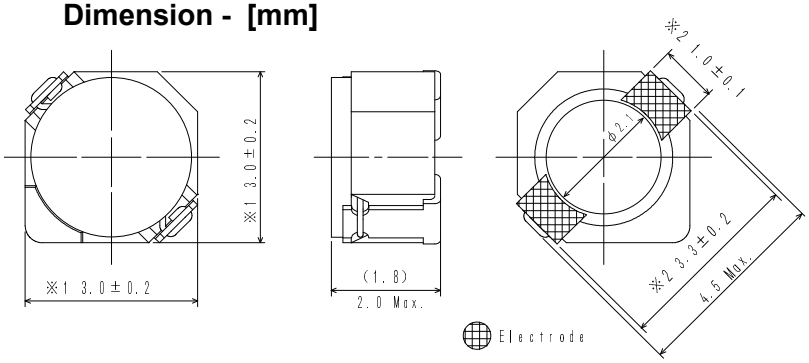
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:3.2 × 3.2 × 2.0 mm Max.
- Product weight: 65mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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

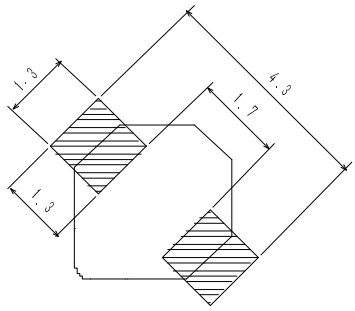
Packaging
- Carrier tape and reel packaging
- 7.0"diameter reel
- 1000pcs per reel

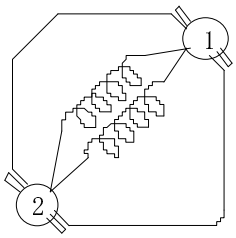
Applications
- Ideally used in Mobilephone,PDA,MP3, DSC/DVC, etc. as DC-DC converter inductors.

Dimension - [mm]

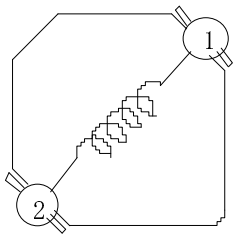


Land pattern and Schematics - [mm]





(0.20μH～3.3μH)



(4.7μH～15μH)

Revised: 4-Jun-12

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℃	at100℃	
CDRH2D18/HPNP-R20NC	N	0.20±35%	22(17)	5.35	3.55	4.70
CDRH2D18/HPNP-R36NC	P	0.36±35%	29(22)	4.62	3.00	4.10
CDRH2D18/HPNP-R56NC	Q	0.56±35%	33(25)	3.75	2.76	3.60
CDRH2D18/HPNP-R82NC	R	0.82±35%	39(30)	2.91	2.20	3.30
CDRH2D18/HPNP-1R1NC	S	1.10±35%	43(33)	2.50	1.90	2.90
CDRH2D18/HPNP-1R7NC	A	1.70±30%	44(35)	1.85	1.36	2.20
CDRH2D18/HPNP-2R2NC	C	2.20±30%	60(48)	1.60	1.15	1.90
CDRH2D18/HPNP-3R3NC	E	3.30±30%	86(69)	1.45	1.10	1.55
CDRH2D18/HPNP-4R7NC	G	4.70±30%	140(110)	1.20	0.90	1.20
CDRH2D18/HPNP-6R3NC	I	6.30±30%	160(128)	1.05	0.78	1.15
CDRH2D18/HPNP-100NC	K	10.0±30%	245(195)	0.85	0.65	0.90
CDRH2D18/HPNP-150NC	M	15.0±30%	345(275)	0.70	0.53	0.64

※1. Inductance measuring condition: 0.20μH～1.10μH at 7.96MHz ; 1.70μH～15.0μH at 100kHz

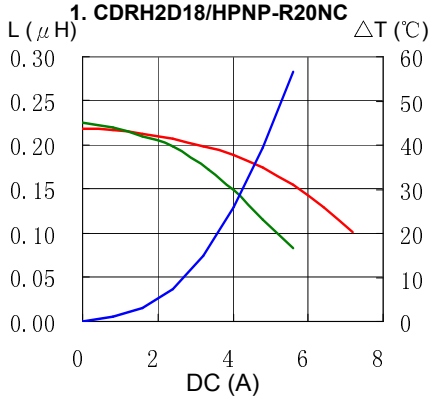
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

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

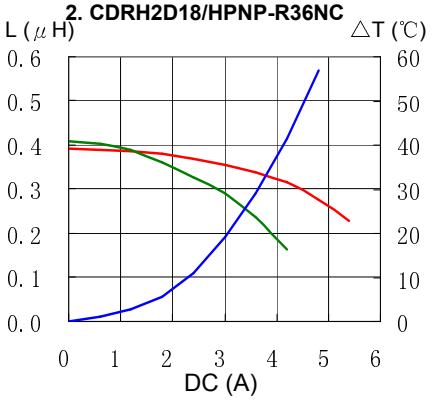
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

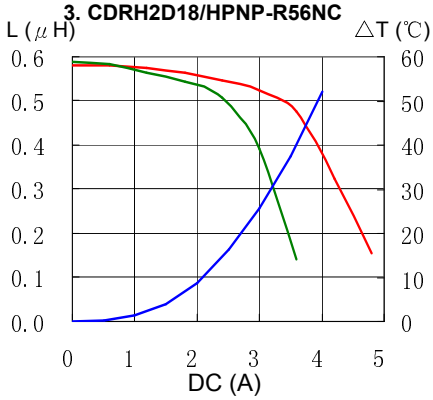
1. CDRH2D18/HPNP-R20NC



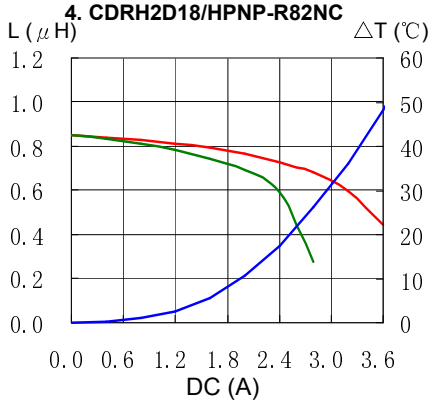
2. CDRH2D18/HPNP-R36NC



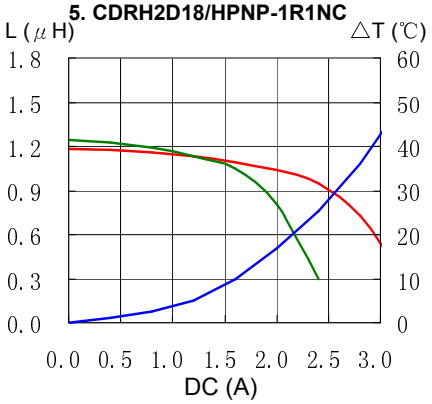
3. CDRH2D18/HPNP-R56NC



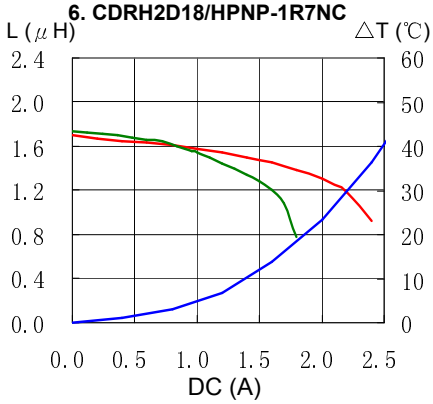
4. CDRH2D18/HPNP-R82NC



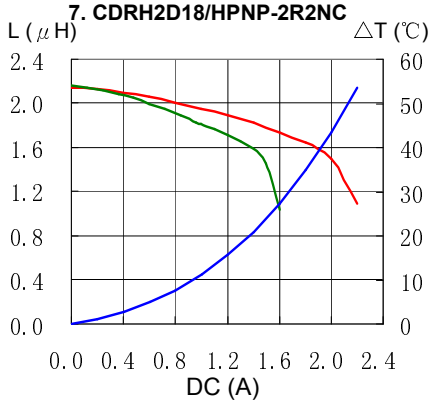
5. CDRH2D18/HPNP-1R1NC



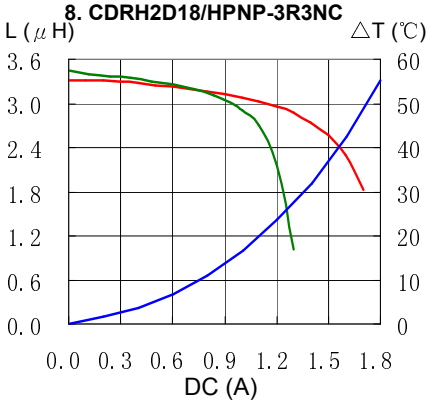
6. CDRH2D18/HPNP-1R7NC



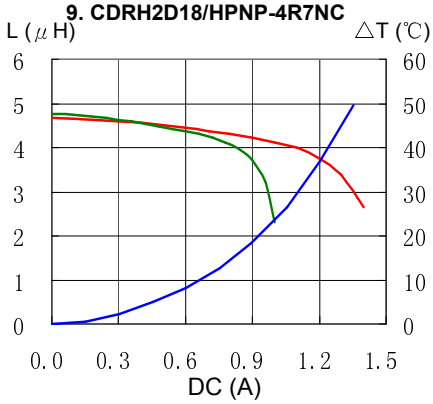
7. CDRH2D18/HPNP-2R2NC



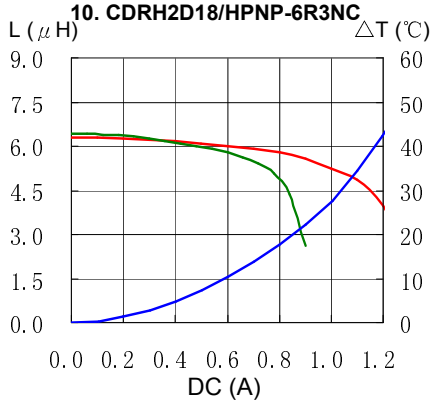
8. CDRH2D18/HPNP-3R3NC



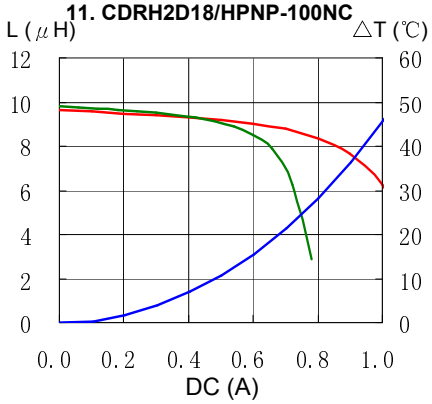
9. CDRH2D18/HPNP-4R7NC



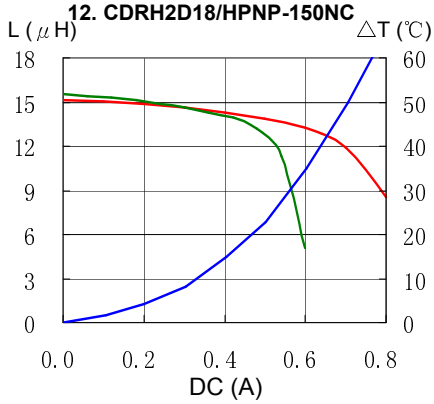
10. CDRH2D18/HPNP-6R3NC



11. CDRH2D18/HPNP-100NC

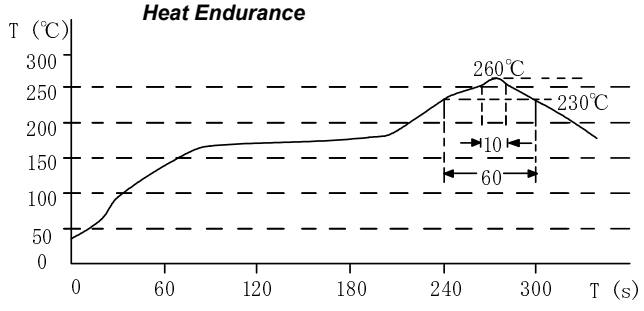


12. CDRH2D18/HPNP-150NC

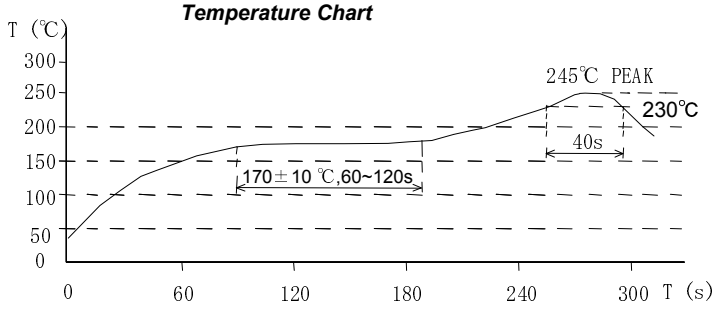


Solder Reflow Condition

Heat Endurance



Temperature Chart



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

Hong Kong
Tel.+852-2880-6688
FAX.+852-2565-9600
sales@hk.sumida.com

Shanghai
Tel.+86-021-5836-3299
FAX.+86-021-5836-3266
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

Tokyo
Tel.+81-3-5202-7112
FAX.+81-3-5202-7105
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.+65-6296-3390
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@sumida-eu.com

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