

SMD Power Inductor CDRH3D28



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 3.0 mm Max.
- Product weight: 130m g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

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

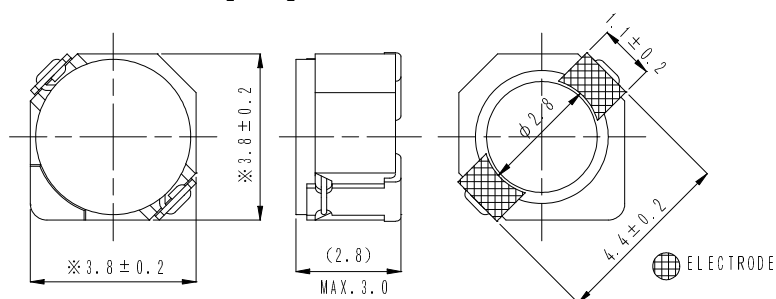
Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 500pcs per reel

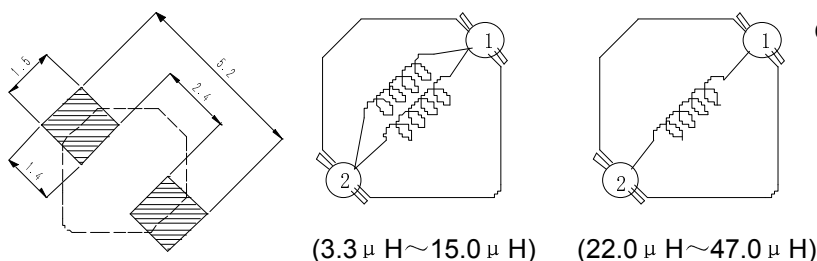
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within]※1	D.C.R. (mΩ) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 100°C	
CDRH3D28NP-3R3NC	A	3.3 ± 30%	72.1(57.7)	2.00	1.48	1.85
CDRH3D28NP-4R7NC	B	4.7 ± 30%	88.3(70.6)	1.65	1.28	1.62
CDRH3D28NP-6R8NC	C	6.8 ± 30%	119(95.0)	1.24	0.94	1.32
CDRH3D28NP-100NC	D	10 ± 30%	145(116)	1.05	0.80	1.18
CDRH3D28NP-150NC	E	15 ± 30%	213(170)	0.90	0.64	1.02
CDRH3D28NP-220NC	F	22 ± 30%	335(268)	0.76	0.55	0.74
CDRH3D28NP-330NC	G	33 ± 30%	481(385)	0.58	0.44	0.63
CDRH3D28NP-470NC	H	47 ± 30%	599(479)	0.48	0.36	0.56

※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 $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

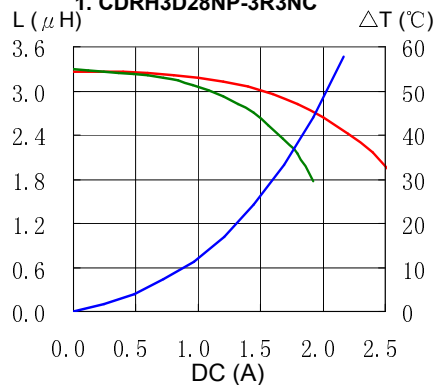
SMD Power Inductor CDRH3D28



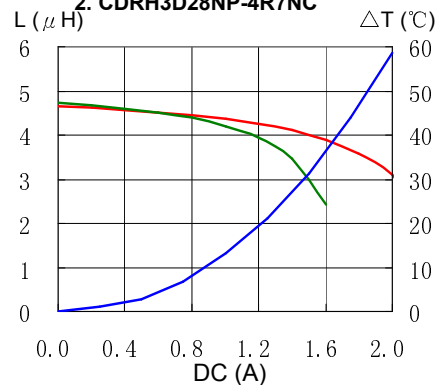
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

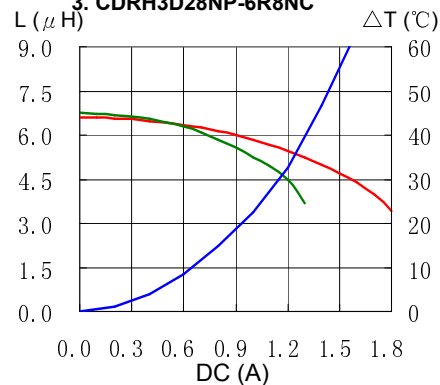
1. CDRH3D28NP-3R3NC



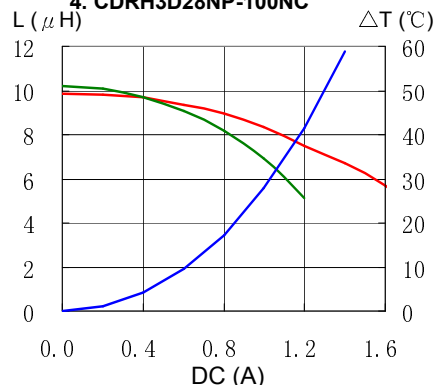
2. CDRH3D28NP-4R7NC



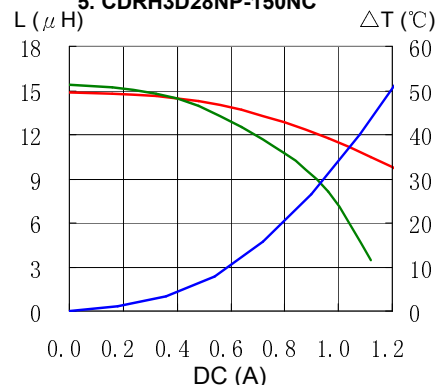
3. CDRH3D28NP-6R8NC



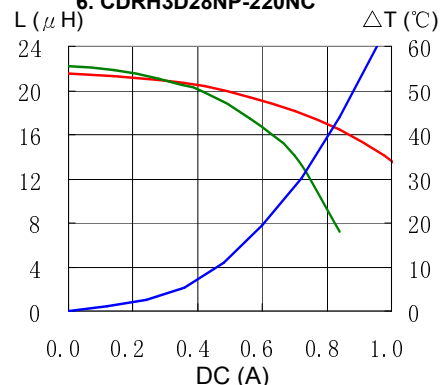
4. CDRH3D28NP-100NC



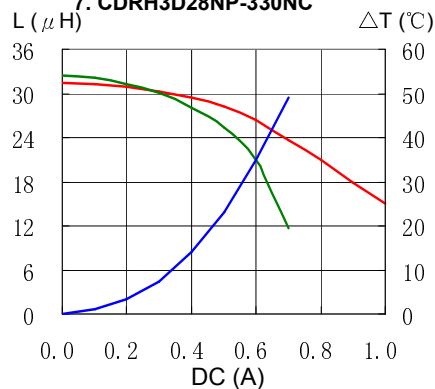
5. CDRH3D28NP-150NC



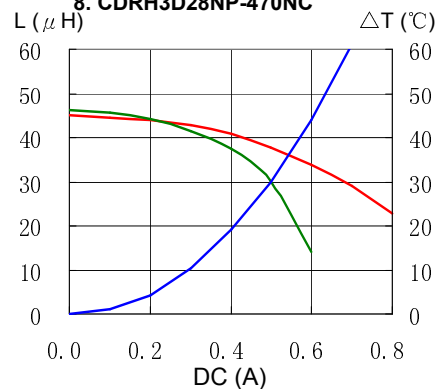
6. CDRH3D28NP-220NC



7. CDRH3D28NP-330NC



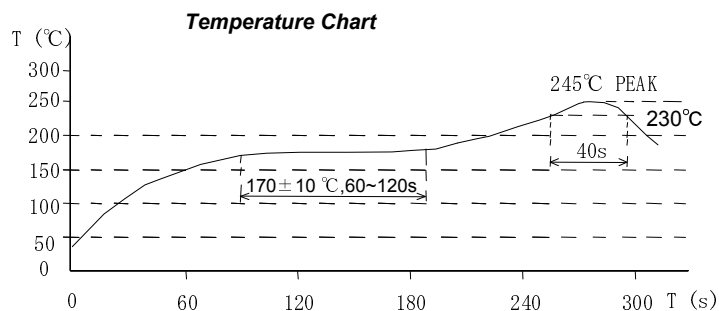
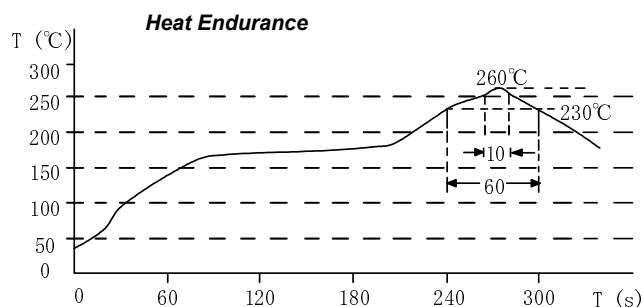
8. CDRH3D28NP-470NC



SMD Power Inductor CDRH3D28



Solder Reflow Condition



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

Tokyo

Tel. +81-3-5202-7112
FAX. +81-3-5202-7105
sales@jp.sumida.com

Chicago

Tel. +1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel. +86-021-5836-3299
FAX. +86-021-5836-3266
shanghai.sales@cn.sumida.com

Seoul

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

Obernzell

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

Shenzhen

Tel. +86-755-8291-0228
FAX. +86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel. +65-6296-3388
FAX. +65-6296-3390
sales@sg.sumida.com

Neumarkt

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

Taipei

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

San Jose

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