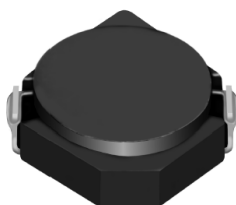


SMD Power Inductor CDRH3D14



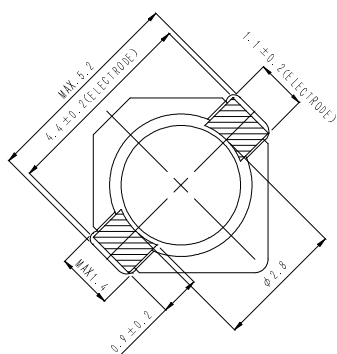
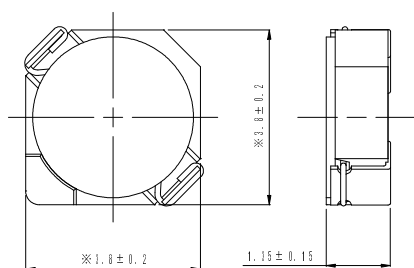
Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 1.5 mm Max.
- Product weight: 70mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



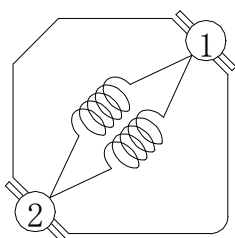
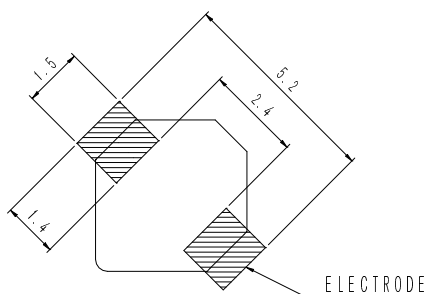
Environmental Data

- 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.

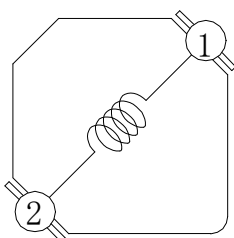
Packaging

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

Land pattern and Schematics - [mm]



(1.2 μ H ~ 3.3 μ H)



(3.9 μ H ~ 22 μ H)

Applications

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

SMD Power Inductor CDRH3D14



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDRH3D14NP-1R2NC	A	$1.2 \pm 25\%$	45(36)	2.15	1.50	2.20
CDRH3D14NP-1R7NC	B	$1.7 \pm 25\%$	63(50)	1.85	1.35	2.00
CDRH3D14NP-2R2NC	D	$2.2 \pm 25\%$	69(55)	1.60	1.25	1.75
CDRH3D14NP-2R7NC	E	$2.7 \pm 25\%$	88(70)	1.45	1.15	1.36
CDRH3D14NP-3R3NC	F	$3.3 \pm 25\%$	100(80)	1.35	0.96	1.24
CDRH3D14NP-3R9NC	G	$3.9 \pm 25\%$	135(110)	1.15	0.82	1.12
CDRH3D14NP-4R7NC	H	$4.7 \pm 25\%$	150(120)	1.10	0.76	0.96
CDRH3D14NP-8R2NC	L	$8.2 \pm 25\%$	238(190)	0.82	0.64	0.74
CDRH3D14NP-100NC	M	$10 \pm 25\%$	262(210)	0.75	0.55	0.69
CDRH3D14NP-120NC	N	$12 \pm 25\%$	350(280)	0.67	0.50	0.60
CDRH3D14NP-150NC	P	$15 \pm 25\%$	488(390)	0.60	0.48	0.58
CDRH3D14NP-220NC	R	$22 \pm 25\%$	575(460)	0.52	0.37	0.43

※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.

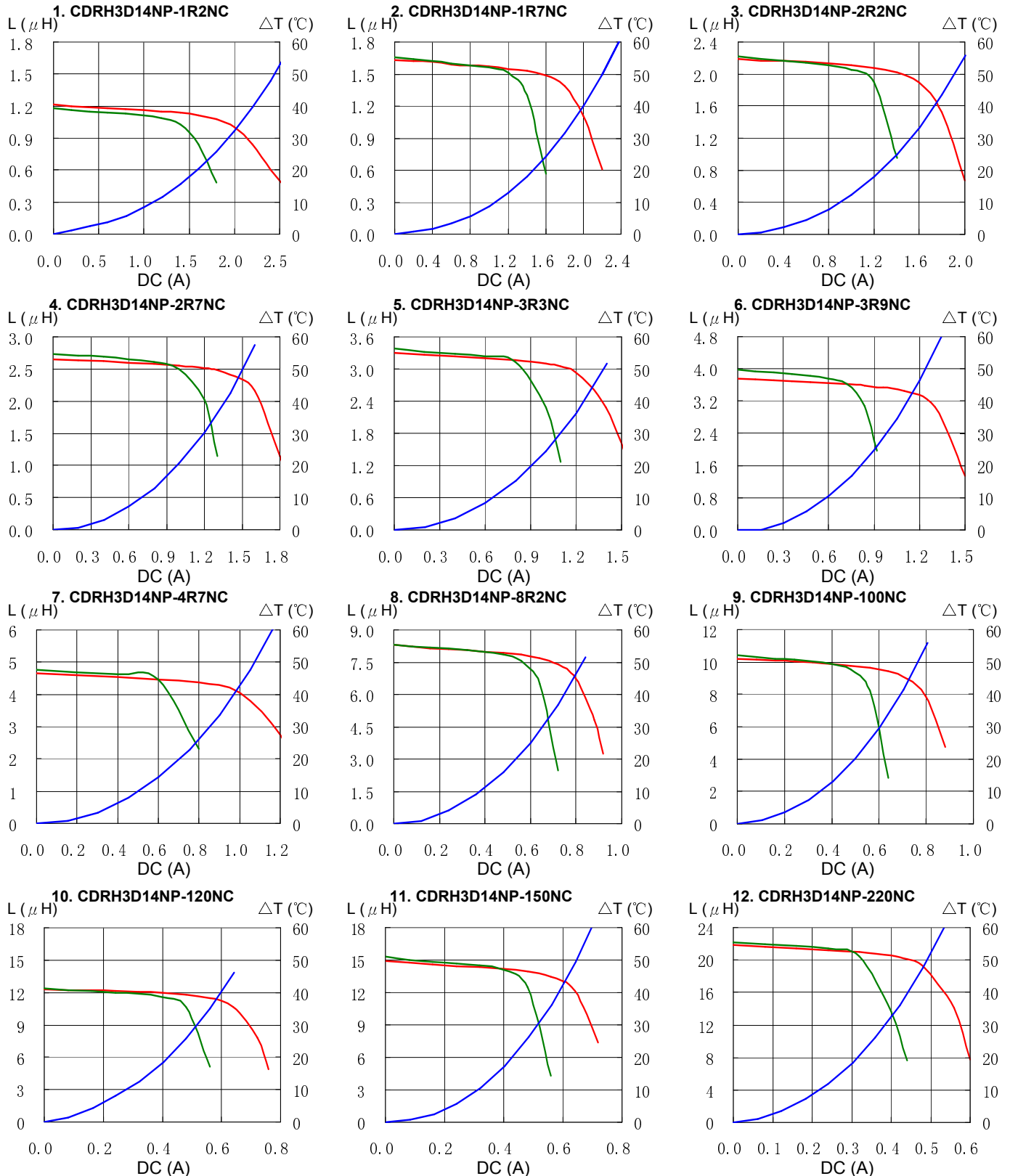
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^\circ\text{C}$ ($T_a=20^\circ\text{C}$).

SMD Power Inductor CDRH3D14



Saturation Current & Temperature Rise Graph

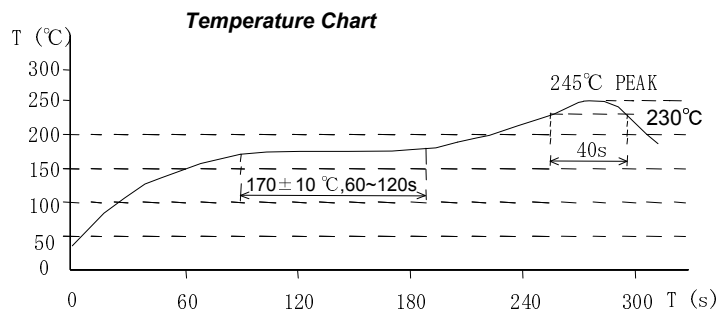
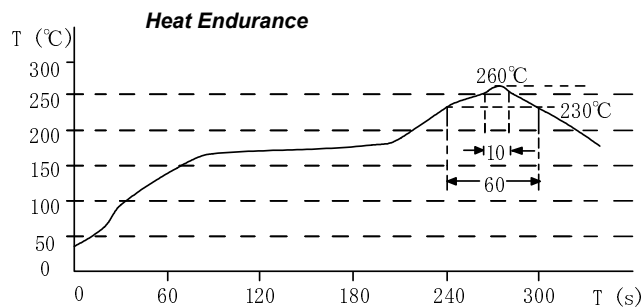
— L (20°C) — L (105°C) — ΔT



SMD Power Inductor CDRH3D14



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@comp@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