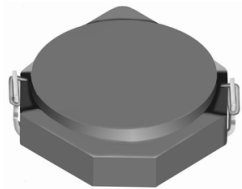


SMD Power Inductor CDRH3D11/HP



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 1.2 mm Max.
- Product weight: 55mg(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.

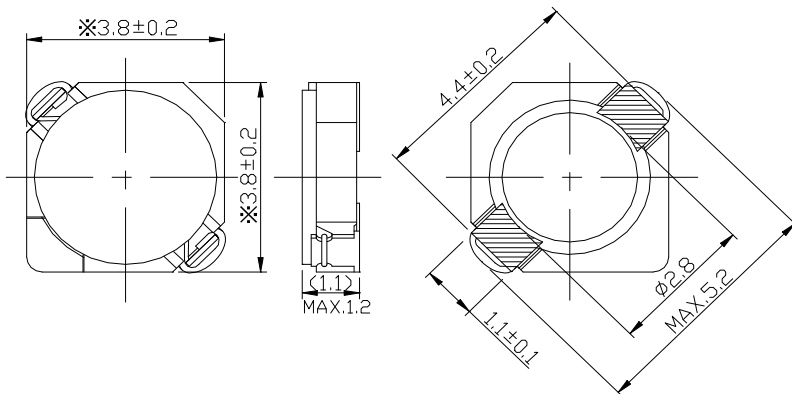
Packaging

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

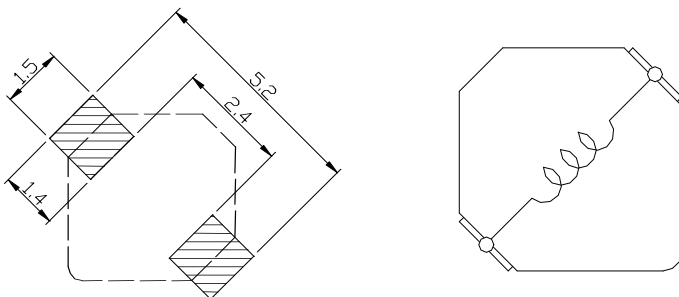
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



SMD Power Inductor CDRH3D11/HP



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	
CDRH3D11HPNP-0R6NC	A	0.6 $\pm$ 25%	59(45)	2.90	2.10	1.80
CDRH3D11HPNP-1R2NC	B	1.2 $\pm$ 25%	82(63)	2.00	1.50	1.70
CDRH3D11HPNP-1R5NC	C	1.5 $\pm$ 25%	104(80)	1.85	1.40	1.45
CDRH3D11HPNP-2R2NC	D	2.2 $\pm$ 25%	143(110)	1.60	1.20	1.15
CDRH3D11HPNP-3R3NC	E	3.3 $\pm$ 25%	182(140)	1.25	0.90	0.95
CDRH3D11HPNP-4R7NC	F	4.7 $\pm$ 25%	234(180)	1.00	0.70	0.90
CDRH3D11HPNP-6R8NC	G	6.8 $\pm$ 25%	377(290)	0.85	0.63	0.70
CDRH3D11HPNP-100NC	H	10.0 $\pm$ 25%	413(330)	0.80	0.60	0.60
CDRH3D11HPNP-120NC	I	12.0 $\pm$ 25%	585(470)	0.64	0.45	0.48
CDRH3D11HPNP-150NC	J	15.0 $\pm$ 25%	653(520)	0.58	0.42	0.45
CDRH3D11HPNP-180NC	K	18.0 $\pm$ 25%	888(710)	0.52	0.40	0.40
CDRH3D11HPNP-220NC	L	22.0 $\pm$ 25%	1012(810)	0.45	0.35	0.33

※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.

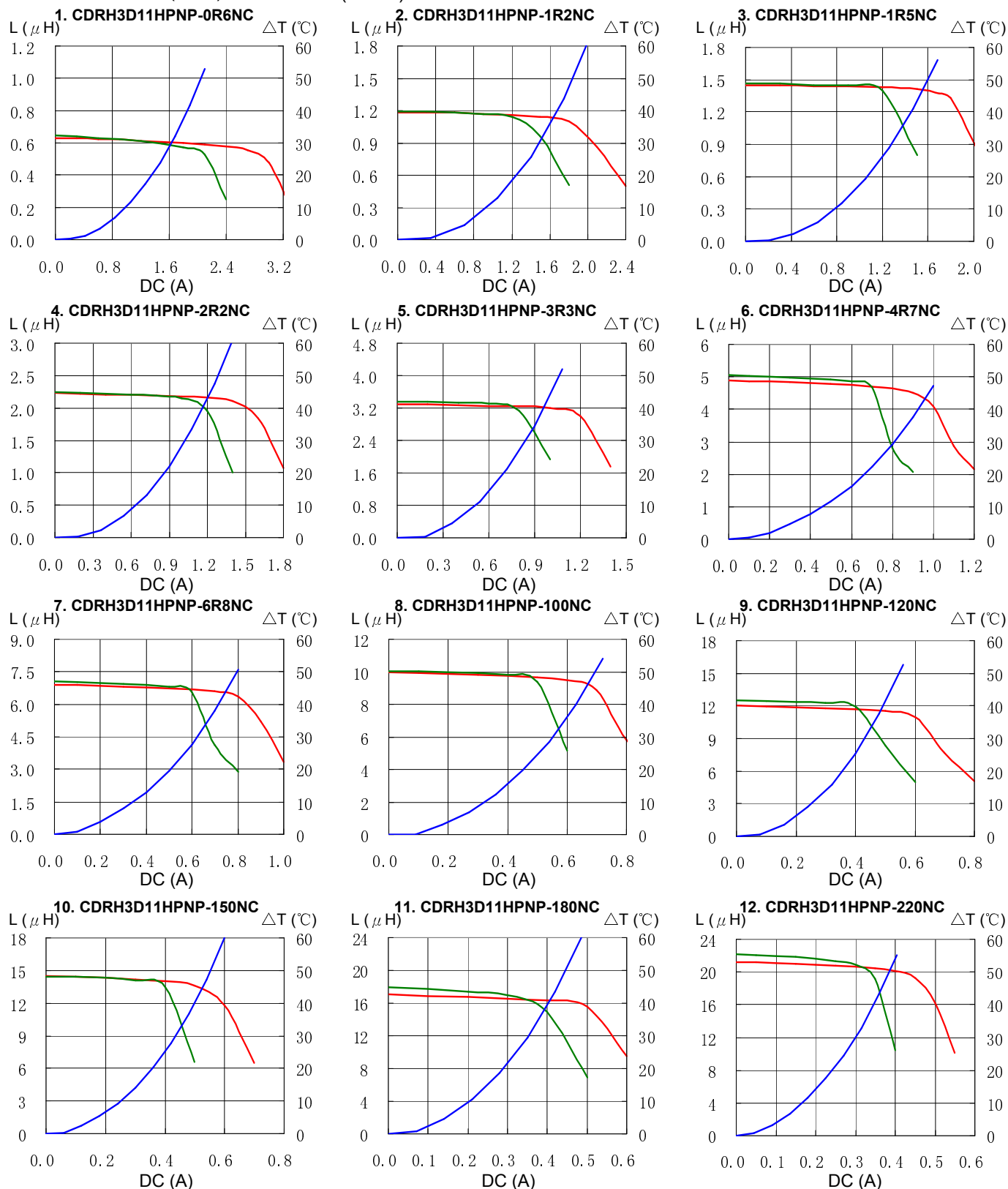
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH3D11/HP



Saturation Current & Temperature Rise Graph

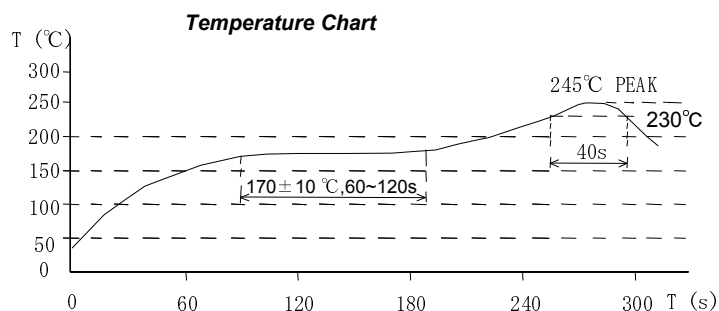
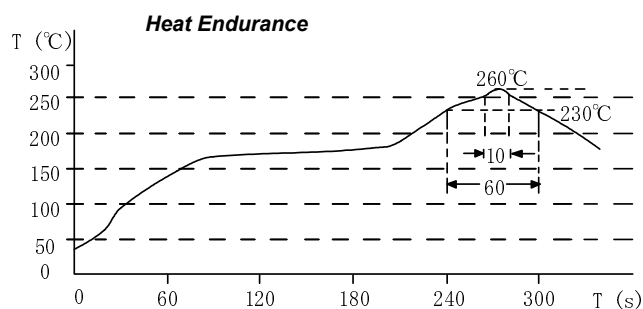
— L (20°C) — L (105°C) — ΔT



SMD Power Inductor CDRH3D11/HP



Solder Reflow Condition



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

Saitama(Japan)

Tel. +81-48-691-7300
FAX. +81-48-691-7340
sales@jp.sumida.com

Chicago

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

Shanghai

Tel. +86-21-5836-3299
FAX. +86-21-5836-3266
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@eu.sumida.com

Shenzhen

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

Singapore

Tel. +65-6296-3388
FAX. +65-6841-4426
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