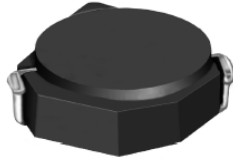


SMD Power Inductor

CDRH2D11B



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 3.2 × 3.2 × 1.2 mm Max.
- Product weight: 36mg(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.

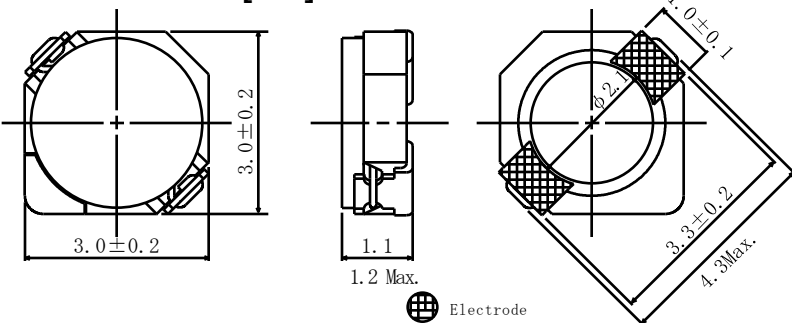
Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 1500pcs per reel

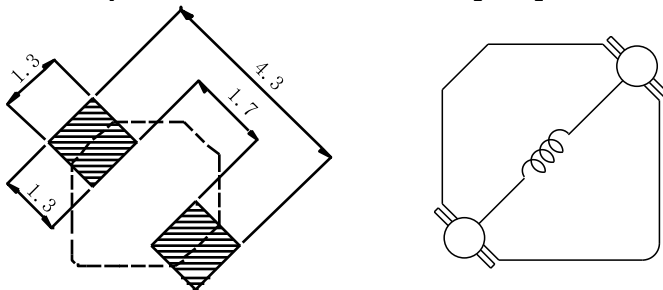
Applications

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

Dimension - [mm]

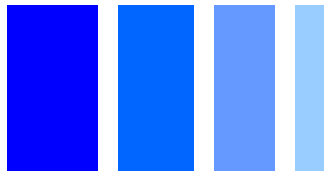


Land pattern and Schematics - [mm]



SMD Power Inductor

CDRH2D11B



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 100°C	
CDRH2D11BNP-1R0NC	A	$1.0 \pm 25\%$	62.6(50.1)	1.50	1.25	1.70
CDRH2D11BNP-1R5NC	B	$1.5 \pm 25\%$	84.3(67.4)	1.25	1.05	1.45
CDRH2D11BNP-2R2NC	C	$2.2 \pm 25\%$	95.5(76.4)	1.10	0.9	1.40
CDRH2D11BNP-2R7NC	D	$2.7 \pm 25\%$	120(95.6)	0.92	0.75	1.20
CDRH2D11BNP-3R3NC	E	$3.3 \pm 25\%$	154(123)	0.88	0.70	1.00
CDRH2D11BNP-4R7NC	F	$4.7 \pm 25\%$	248(198)	0.70	0.56	0.80
CDRH2D11BNP-5R6NC	G	$5.6 \pm 25\%$	264(211)	0.65	0.54	0.75
CDRH2D11BNP-6R8NC	H	$6.8 \pm 25\%$	284(227)	0.60	0.50	0.72
CDRH2D11BNP-8R2NC	I	$8.2 \pm 25\%$	376(301)	0.52	0.44	0.60
CDRH2D11BNP-100NC	J	$10.0 \pm 25\%$	428(342)	0.48	0.40	0.58
CDRH2D11BNP-150NC	K	$15.0 \pm 25\%$	663(530)	0.40	0.33	0.46
CDRH2D11BNP-180NC	L	$18.0 \pm 25\%$	730(584)	0.36	0.30	0.43
CDRH2D11BNP-220NC	M	$22.0 \pm 25\%$	801(641)	0.35	0.26	0.42

※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.

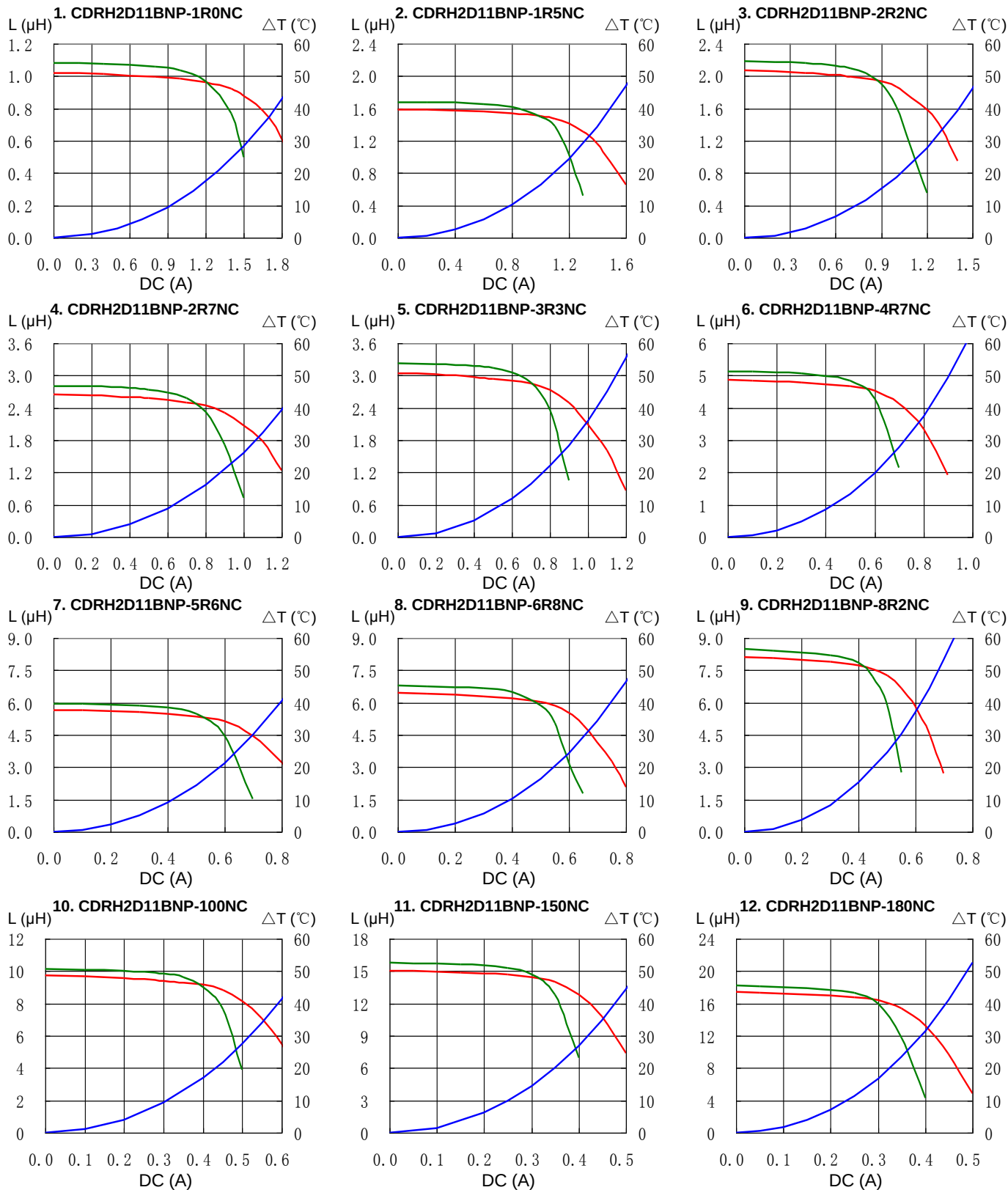
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

SMD Power Inductor CDRH2D11B



Saturation Current & Temperature Rise Graph

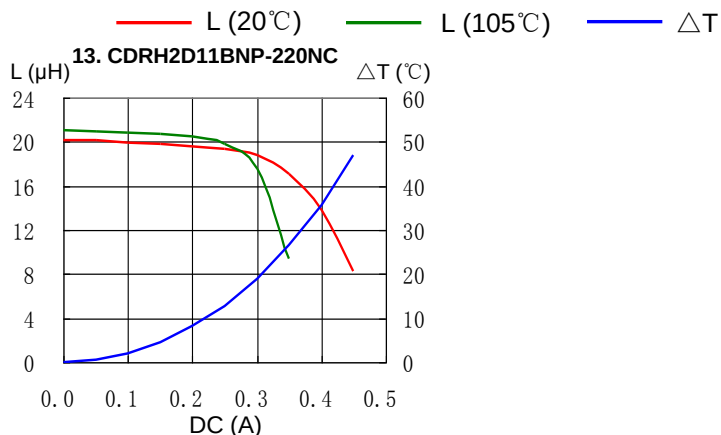
— L (20°C) — L (105°C) — ΔT



SMD Power Inductor CDRH2D11B

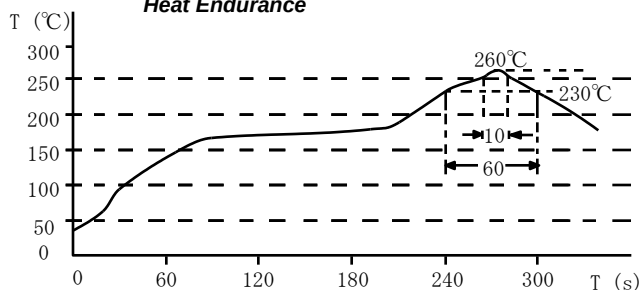


Saturation Current & Temperature Rise Graph

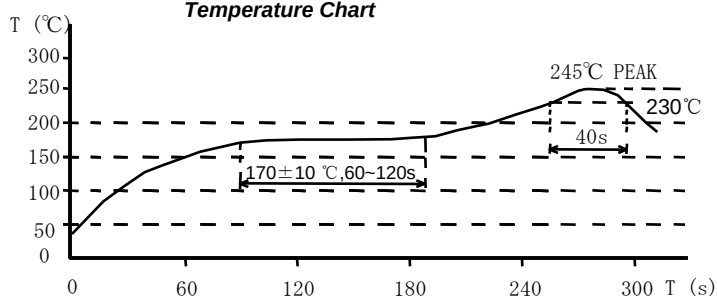


Solder Reflow Condition

Heat Endurance



Temperature Chart



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