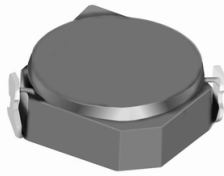


SMD Power Inductor CDRH6D23/HP



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.0 × 7.0 × 2.5 mm Max.
- Product weight: 0.4g(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.

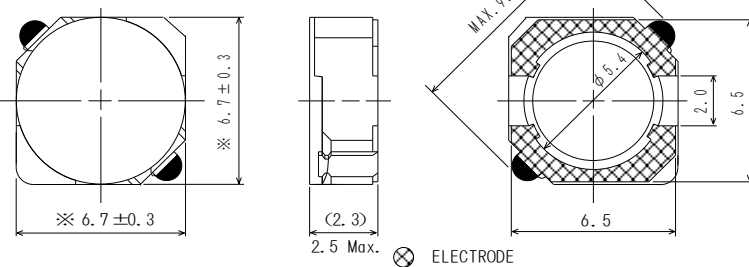
Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 2000pcs per reel

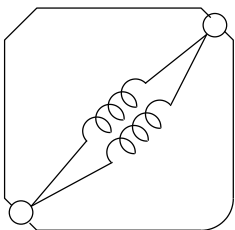
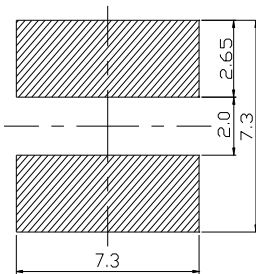
Applications

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

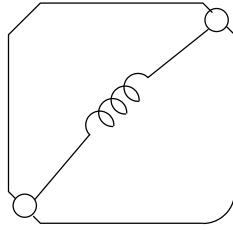
Dimension - [mm]



Land pattern and Schematics - [mm]



(1.2μH ~ 8.2μH)



(10μH ~ 100μH)

SMD Power Inductor

CDRH6D23/HP



Electrical Characteristics

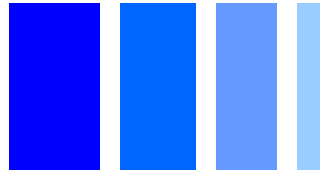
Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDRH6D23HPNP-1R2NC	1R2	1.2 \pm 30%	15.4(12.3)	6.20	5.20	5.30
CDRH6D23HPNP-1R8NC	1R8	1.8 \pm 30%	20.0(16.0)	5.00	4.30	4.70
CDRH6D23HPNP-2R2NC	2R2	2.2 \pm 30%	23.8(19.2)	4.40	3.80	4.10
CDRH6D23HPNP-3R3NC	3R3	3.3 \pm 30%	32.5(26.2)	4.05	3.35	3.30
CDRH6D23HPNP-4R7NC	4R7	4.7 \pm 30%	42.5(34.4)	3.40	2.85	2.80
CDRH6D23HPNP-5R6NC	5R6	5.6 \pm 30%	58.8(47.5)	3.20	2.65	2.30
CDRH6D23HPNP-6R8NC	6R8	6.8 \pm 30%	68.8(55.0)	2.78	2.34	2.20
CDRH6D23HPNP-8R2NC	8R2	8.2 \pm 30%	73.0(58.5)	2.65	2.24	2.10
CDRH6D23HPNP-100MC	100	10 \pm 20%	102.5(82.0)	2.55	2.14	1.70
CDRH6D23HPNP-150MC	150	15 \pm 20%	154.8(123.9)	2.10	1.80	1.40
CDRH6D23HPNP-220MC	220	22 \pm 20%	217.5(173.8)	1.58	1.35	1.10
CDRH6D23HPNP-330MC	330	33 \pm 20%	269.5(215.6)	1.37	1.16	1.00
CDRH6D23HPNP-470MC	470	47 \pm 20%	395.0(316.0)	1.12	0.93	0.80
CDRH6D23HPNP-560MC	560	56 \pm 20%	500.0(400.0)	0.97	0.83	0.75
CDRH6D23HPNP-680MC	680	68 \pm 20%	574.5(459.8)	0.93	0.78	0.70
CDRH6D23HPNP-820MC	820	82 \pm 20%	712.5(571.5)	0.82	0.70	0.60
CDRH6D23HPNP-101MC	101	100 \pm 20%	875.8(700.7)	0.72	0.61	0.52

※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.

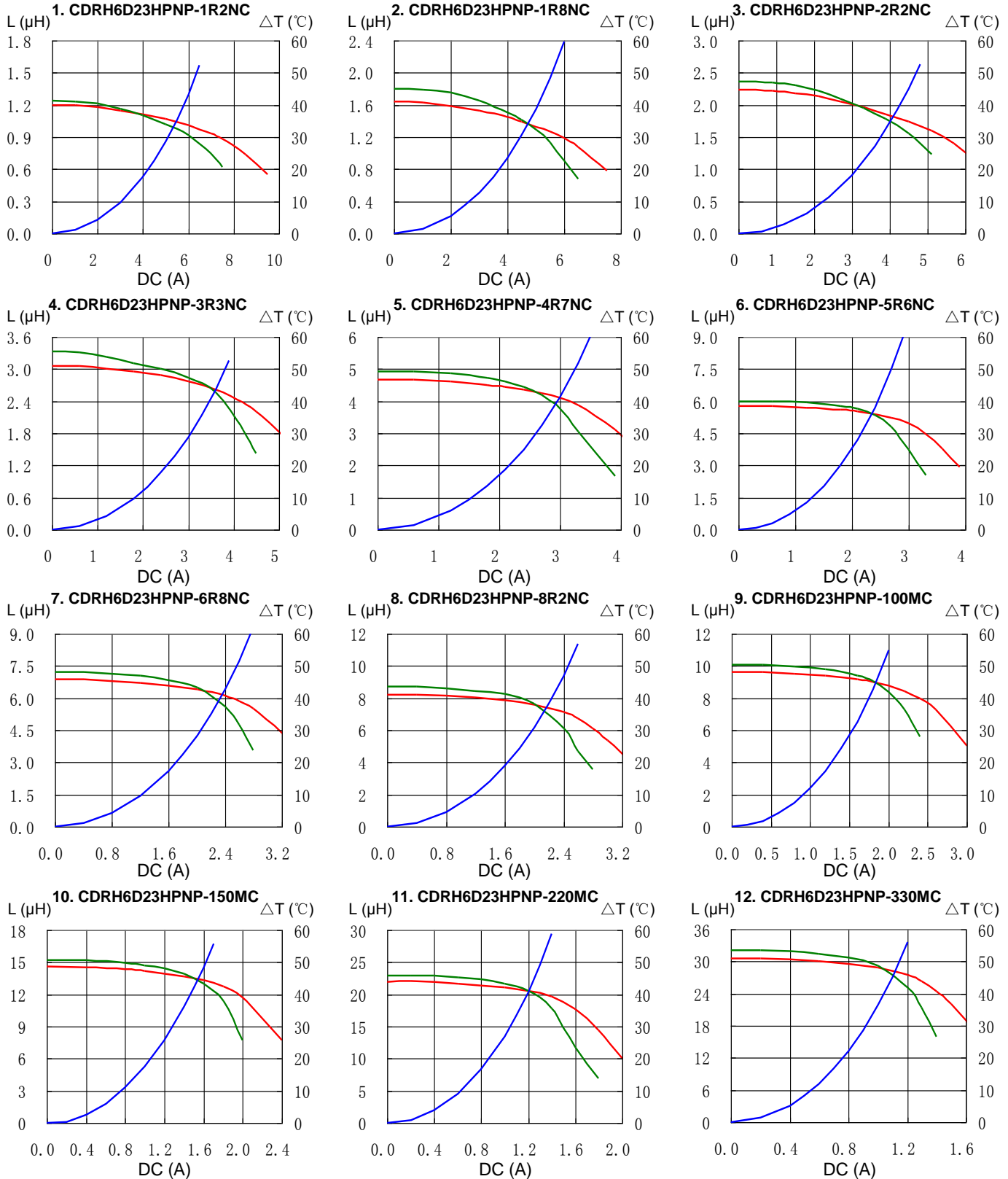
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH6D23/HP

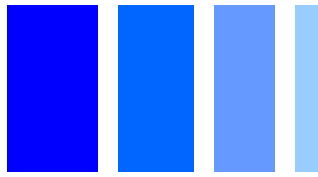


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

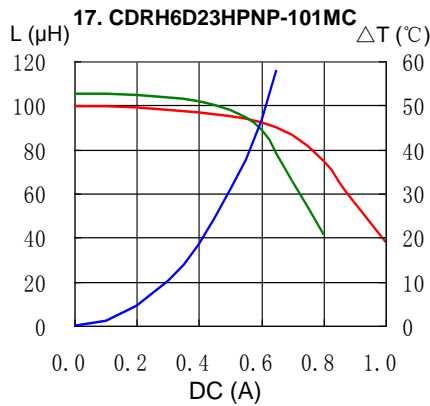
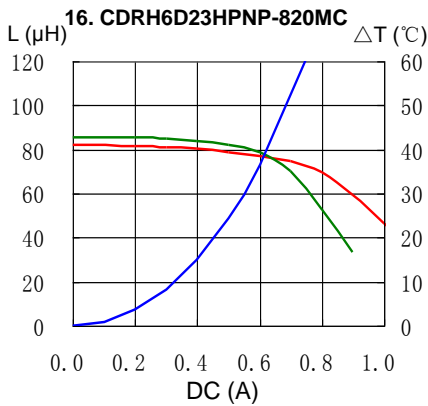
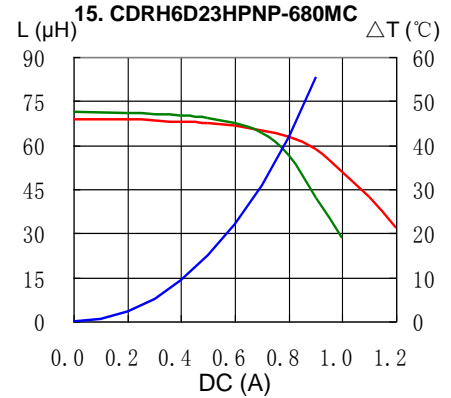
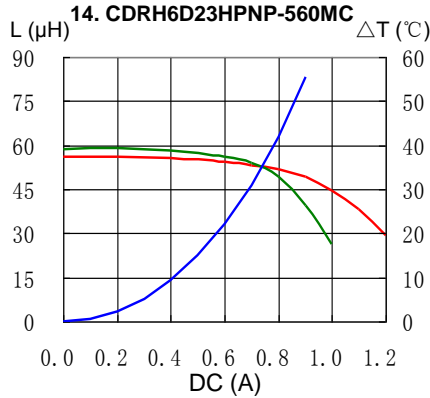
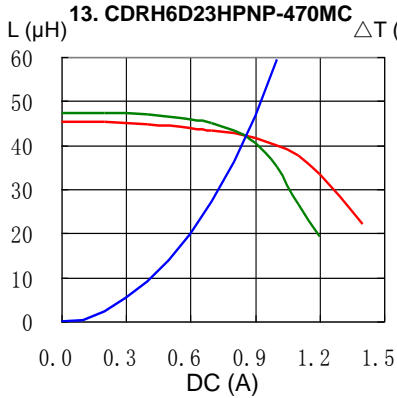


SMD Power Inductor CDRH6D23/HP



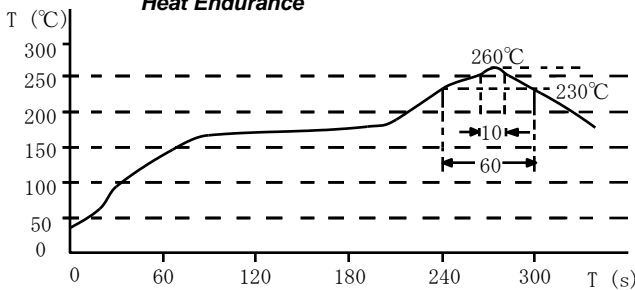
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

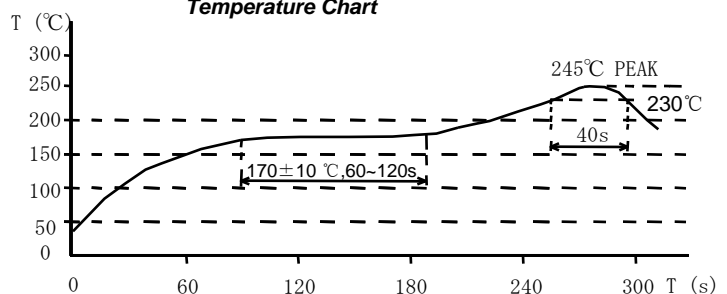


Solder Reflow Condition

Heat Endurance



Temperature Chart



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