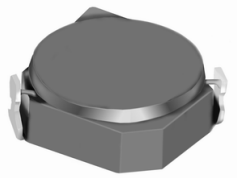
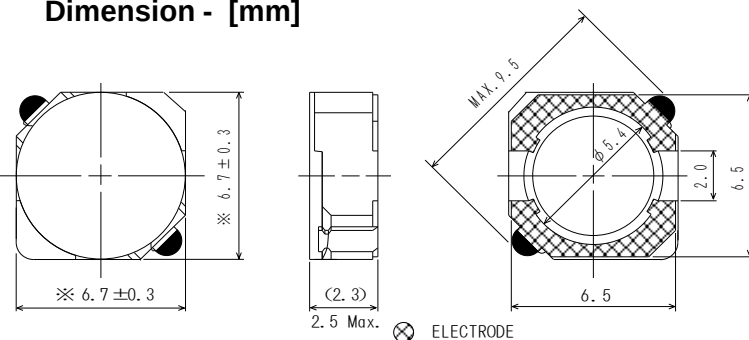


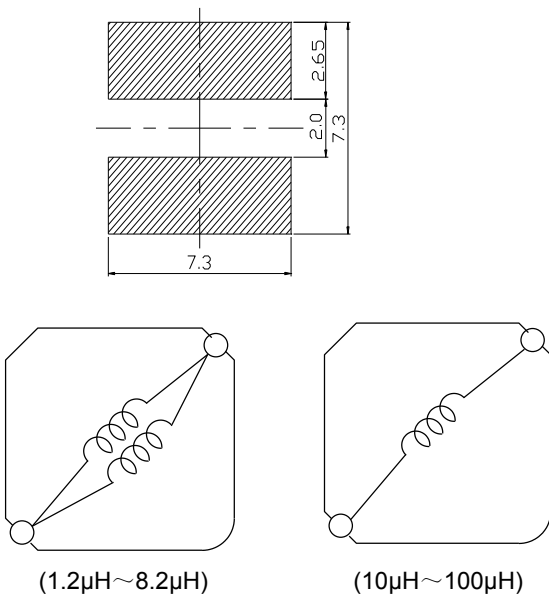
SMD Power Inductor CDRH6D23/HP



Dimension - [mm]



Land pattern and Schematics - [mm]



Description

- Ferrite drum core construction.
- Magnetically shielded.
- $L \times W \times H$: $7.0 \times 7.0 \times 2.5$ mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
- Solder reflow temperature: 260°C peak.

Packaging

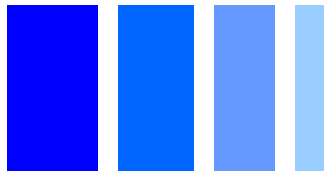
- Carrier tape and reel packaging
- 12.9" diameter reel
- 2000pcs per reel

Applications

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

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

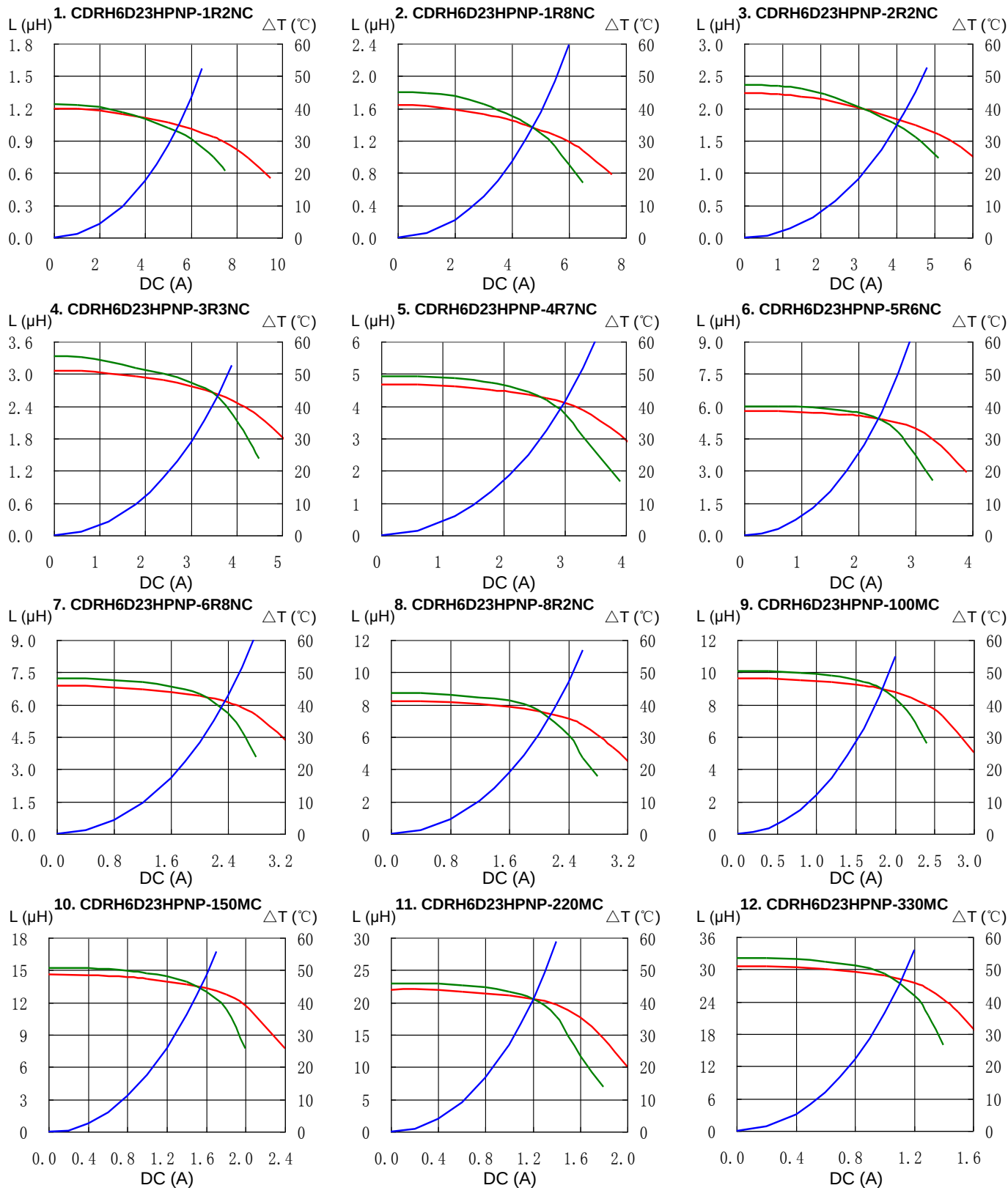
SMD Power Inductor

CDRH6D23/HP



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

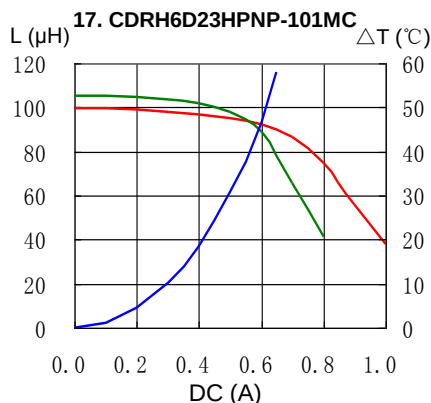
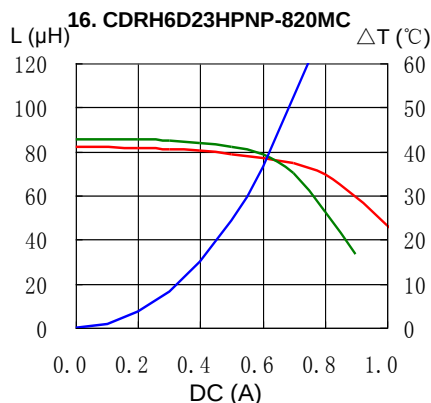
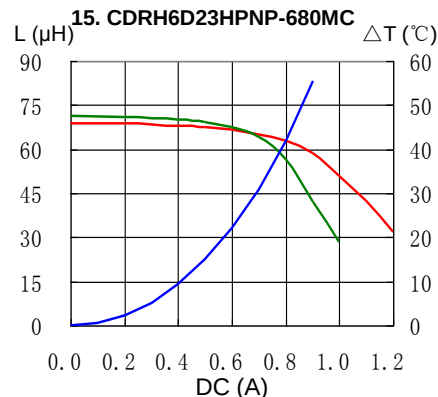
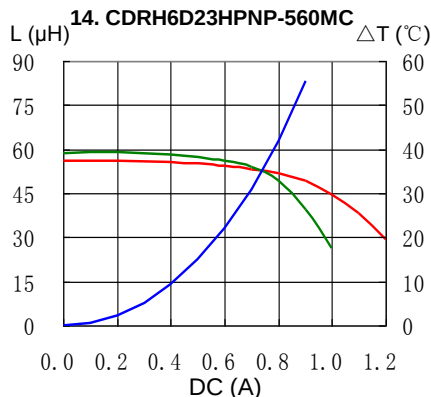
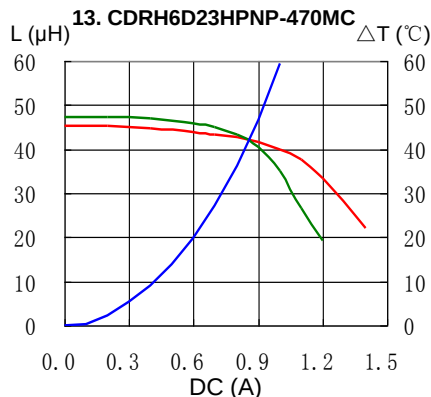


SMD Power Inductor CDRH6D23/HP



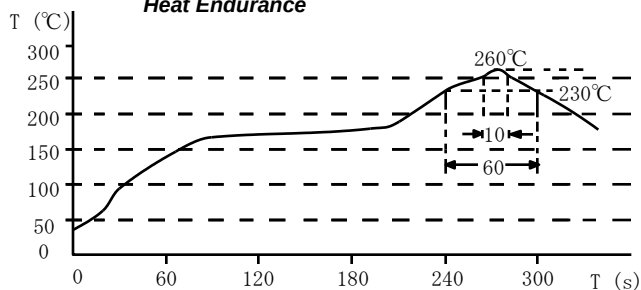
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

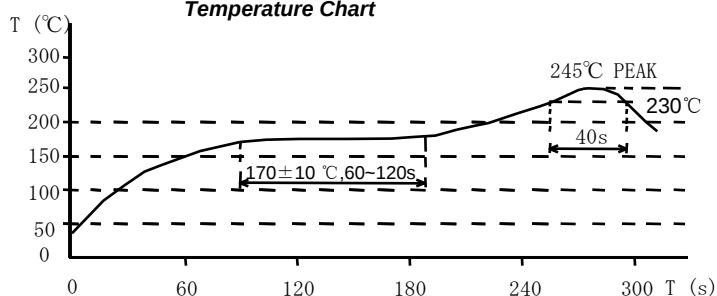


Solder Reflow Condition

Heat Endurance



Temperature Chart



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
infocomp@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