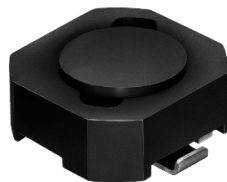


SMD Power Inductor CDRH62B



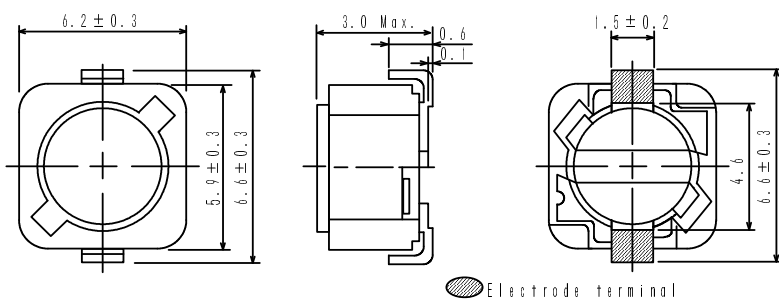
Halogen
Free



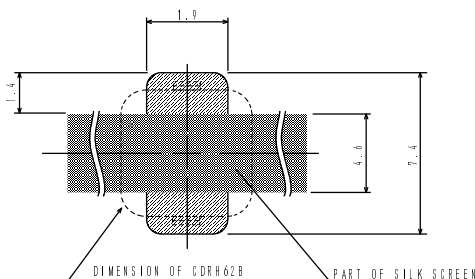
Description

- Ferrite drum core construction
- Magnetically shielded
- L × W × H: 6.9 × 6.5 × 3.0mm Max.
- Product weight: 0.35g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$
- Solder reflow temperature: 260°C peak.

Packaging

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

Applications

- Ideally used in Notebook PC, LCD TV, Game machine, HDD, DSC/DVC, etc as DC-DC converter inductors.

SMD Power Inductor CDRH62B



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH62BNP-2R9NC	2R9	2.9+40% -20%	68m (50m)	1.94
CDRH62BNP-4R0NC	4R0	4.0+40% -20%	80m (59m)	1.63
CDRH62BNP-5R5NC	5R5	5.5+40% -20%	96m (71m)	1.40
CDRH62BNP-6R3NC	6R3	6.3+40% -20%	0.10 (77m)	1.30
CDRH62BNP-7R1NC	7R1	7.1+40% -20%	0.11 (81m)	1.22
CDRH62BNP-8R0NC	8R0	8.0+40% -20%	0.12 (87m)	1.15
CDRH62BNP-100MC	100	10 $\pm$ 20%	0.15 (0.11)	1.10
CDRH62BNP-120MC	120	12 $\pm$ 20%	0.20 (0.15)	1.00
CDRH62BNP-150MC	150	15 $\pm$ 20%	0.23 (0.17)	0.90
CDRH62BNP-180MC	180	18 $\pm$ 20%	0.27 (0.20)	0.80
CDRH62BNP-220MC	220	22 $\pm$ 20%	0.34 (0.25)	0.74
CDRH62BNP-270MC	270	27 $\pm$ 20%	0.38 (0.29)	0.66
CDRH62BNP-330MC	330	33 $\pm$ 20%	0.45 (0.33)	0.59
CDRH62BNP-390MC	390	39 $\pm$ 20%	0.49 (0.37)	0.54
CDRH62BNP-470MC	470	47 $\pm$ 20%	0.69 (0.51)	0.50
CDRH62BNP-560MC	560	56 $\pm$ 20%	0.78 (0.58)	0.46
CDRH62BNP-680MC	680	68 $\pm$ 20%	1.07 (0.83)	0.42
CDRH62BNP-820MC	820	82 $\pm$ 20%	1.21 (0.93)	0.38
CDRH62BNP-101MC	101	100 $\pm$ 20%	1.39 (1.07)	0.34
CDRH62BNP-121MC	121	120 $\pm$ 20%	1.90 (1.46)	0.31
CDRH62BNP-151MC	151	150 $\pm$ 20%	2.18 (1.68)	0.28
CDRH62BNP-181MC	181	180 $\pm$ 20%	2.77 (2.13)	0.26
CDRH62BNP-221MC	221	220 $\pm$ 20%	3.12 (2.40)	0.23
CDRH62BNP-271MC	271	270 $\pm$ 20%	4.38 (3.37)	0.22
CDRH62BNP-331MC	331	330 $\pm$ 20%	4.94 (3.80)	0.19

※1. Inductance measuring condition: 2.9 μ H $\sim$ 8.0 μ H at 7.96 MHz
10 μ H $\sim$ 330 μ H at 1 kHz

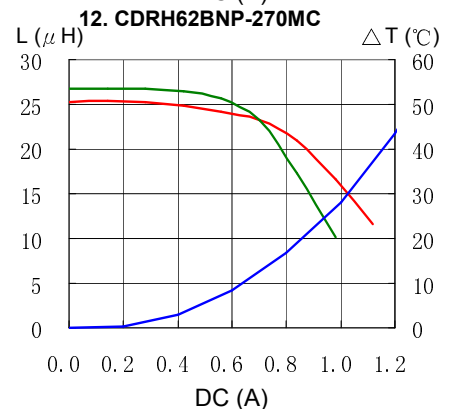
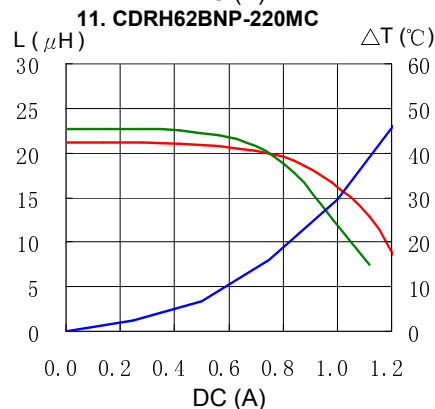
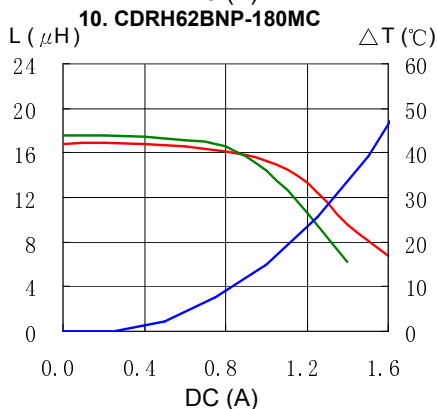
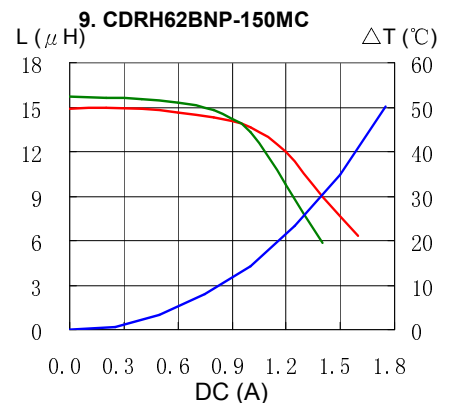
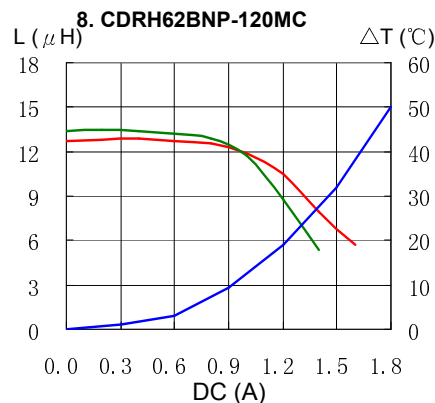
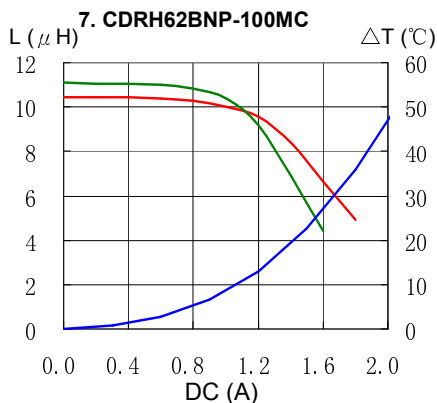
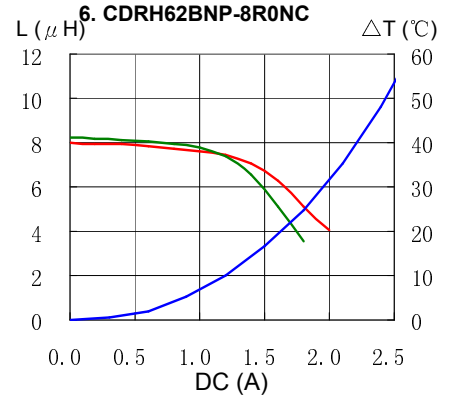
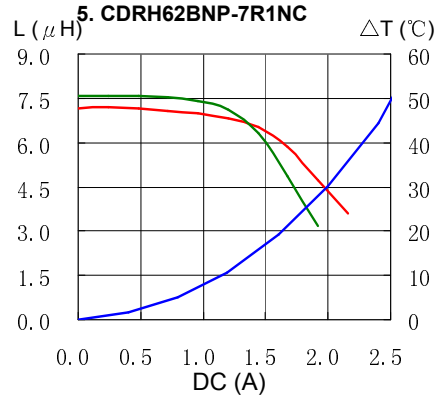
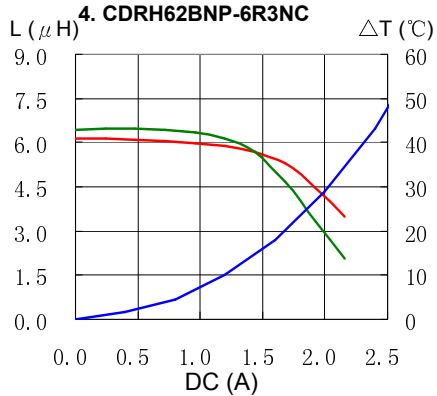
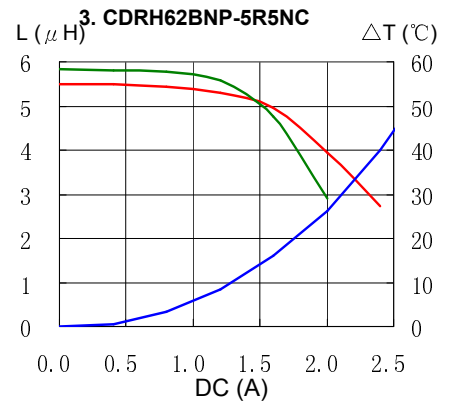
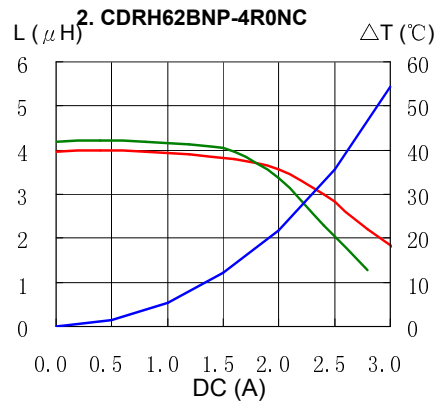
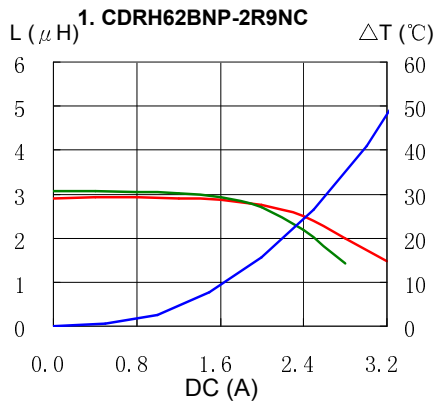
※2. Rated current: The DC current at which the inductance decreases to 75% of it's nominal value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH62B



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

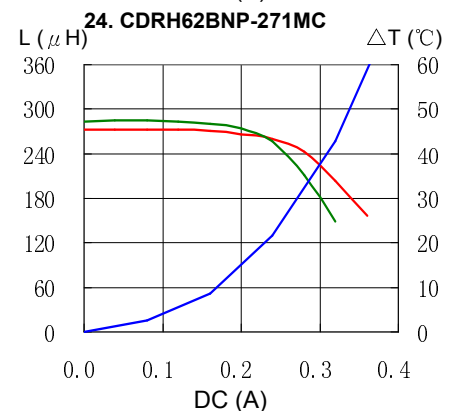
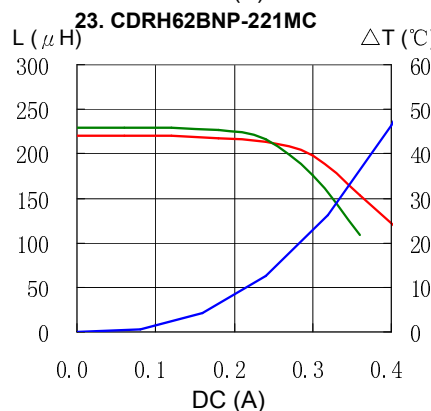
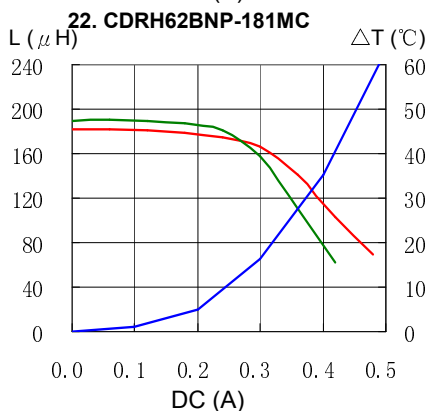
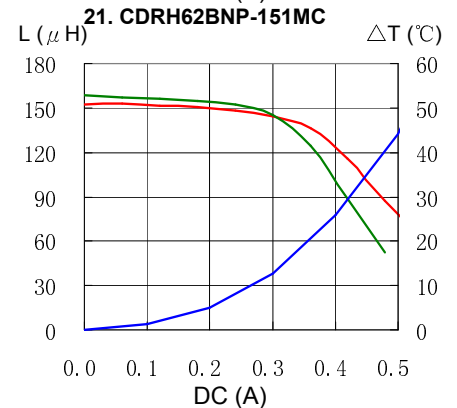
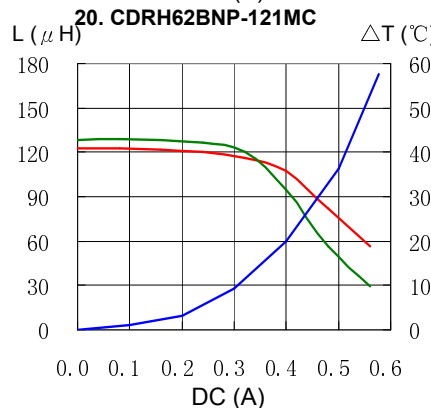
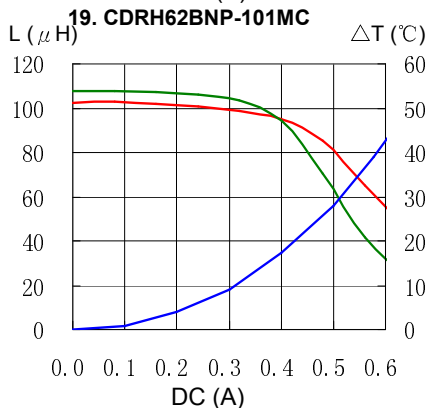
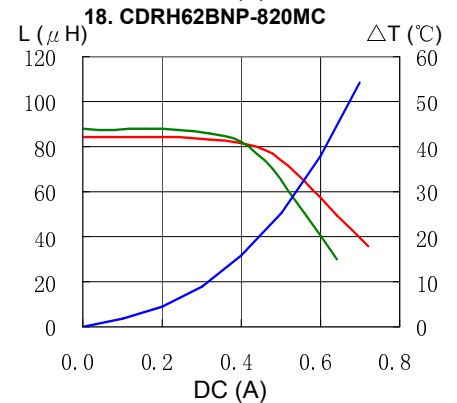
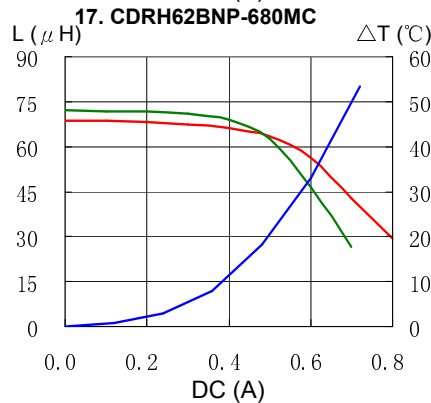
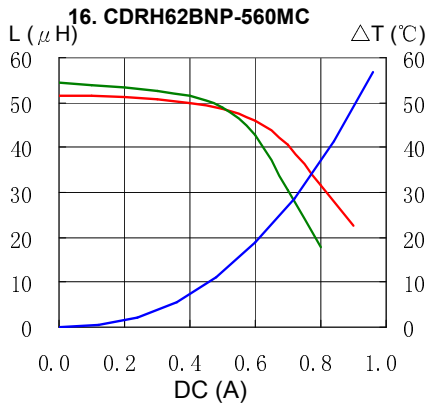
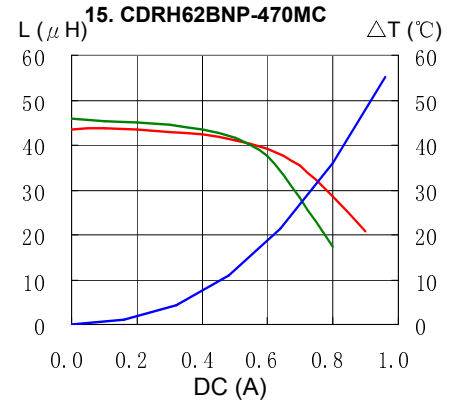
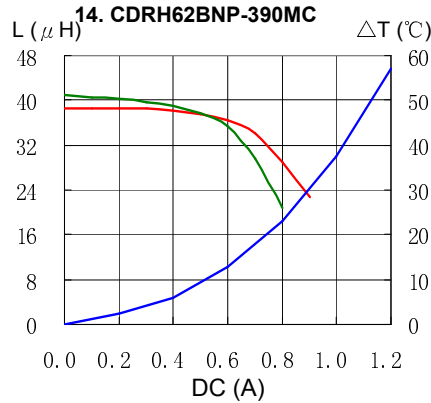
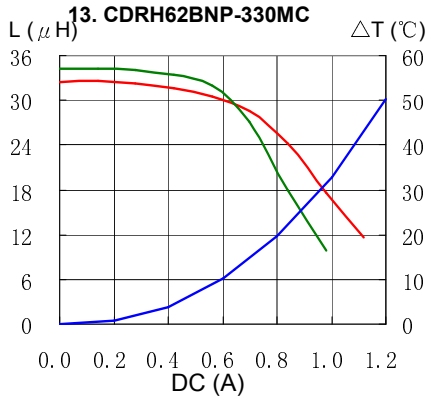


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Saturation Current & Temperature Rise Graph

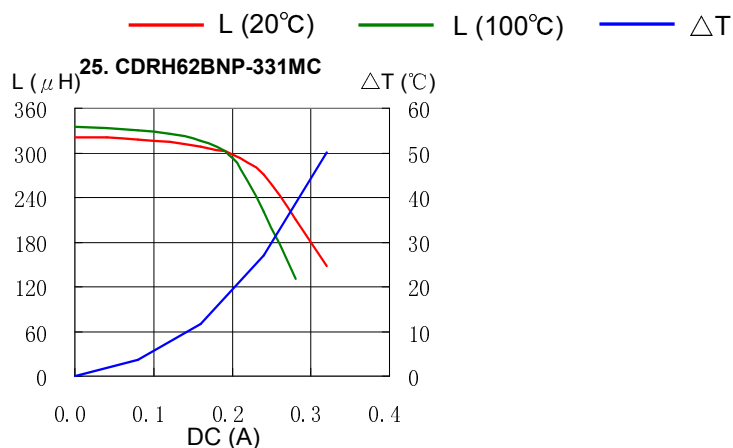
— L (20°C) — L (100°C) — ΔT



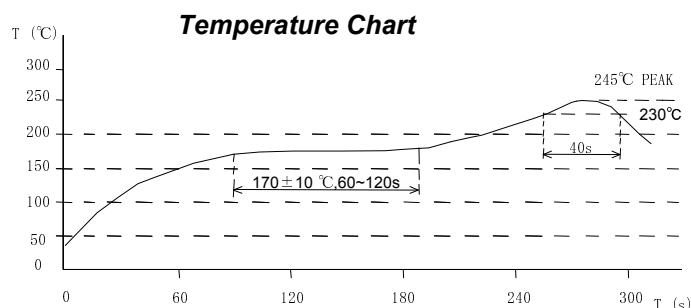
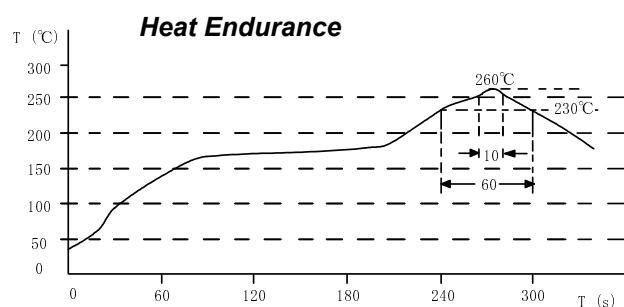
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Saturation Current & Temperature Rise Graph



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
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