

SMD Power Inductor CDRH104R/E



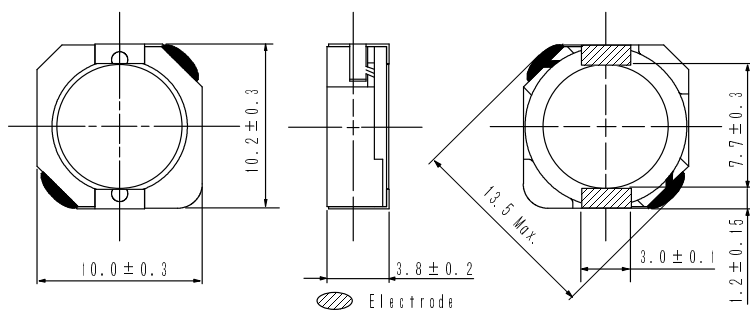
Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 10.5 × 10.3 × 4.0 mm Max.
- Product weight: 1.45g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

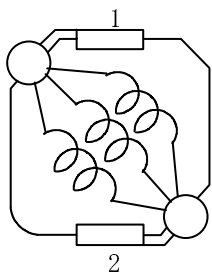
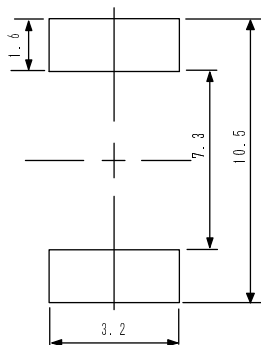
Packaging

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

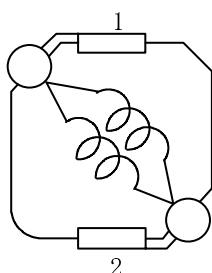
Applications

- Ideally used in Notebook PC, LCD TV, DVD, Game machine, STB, Projector etc as DC-DC converter.

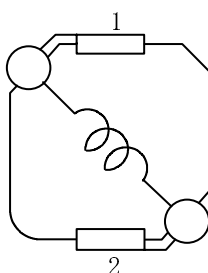
Land pattern and Schematics - [mm]



(1.5 μH ~ 5.2 μH, 10 μH)



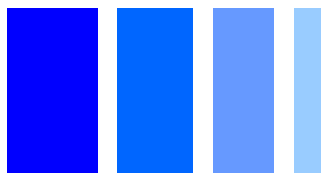
(7.0 μH, 12 μH ~ 33 μH)



(39 μH ~ 330 μH)

SMD Power Inductor

CDRH104R/E



Electrical Characteristics

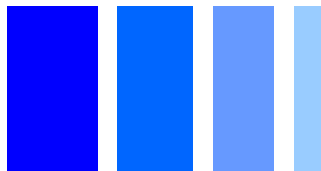
Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDRH104RENP-1R5NC	1R5	1.5 $\pm$ 30%	8.1 (6.0)	10.0	6.50
CDRH104RENP-2R5NC	2R5	2.5 $\pm$ 30%	10.5 (7.8)	7.50	6.10
CDRH104RENP-3R8NC	3R8	3.8 $\pm$ 30%	13.0 (9.6)	6.00	5.50
CDRH104RENP-5R2NC	5R2	5.2 $\pm$ 30%	22 (16)	5.50	5.40
CDRH104RENP-7R0NC	7R0	7.0 $\pm$ 30%	27 (20)	4.80	4.50
CDRH104RENP-100MC	100	10 $\pm$ 20%	35 (26)	4.40	3.80
CDRH104RENP-120MC	120	12 $\pm$ 20%	46 (34)	3.70	3.40
CDRH104RENP-150MC	150	15 $\pm$ 20%	50 (37)	3.60	3.10
CDRH104RENP-180MC	180	18 $\pm$ 20%	69 (51)	3.10	2.60
CDRH104RENP-220MC	220	22 $\pm$ 20%	73 (54)	2.90	2.50
CDRH104RENP-270MC	270	27 $\pm$ 20%	88 (65)	2.60	2.30
CDRH104RENP-330MC	330	33 $\pm$ 20%	93 (69)	2.30	2.20
CDRH104RENP-390MC	390	39 $\pm$ 20%	127 (94)	2.20	2.00
CDRH104RENP-470MC	470	47 $\pm$ 20%	128 (95)	2.10	1.90
CDRH104RENP-560MC	560	56 $\pm$ 20%	188 (139)	1.65	1.50
CDRH104RENP-680MC	680	68 $\pm$ 20%	213 (158)	1.50	1.42
CDRH104RENP-820MC	820	82 $\pm$ 20%	283 (218)	1.45	1.30
CDRH104RENP-101MC	101	100 $\pm$ 20%	304 (225)	1.35	1.25
CDRH104RENP-121MC	121	120 $\pm$ 20%	375 (278)	1.20	1.08
CDRH104RENP-151MC	151	150 $\pm$ 20%	506 (375)	1.15	0.85
CDRH104RENP-181MC	181	180 $\pm$ 20%	568 (421)	1.00	0.75
CDRH104RENP-221MC	221	220 $\pm$ 20%	756 (560)	0.92	0.70
CDRH104RENP-271MC	271	270 $\pm$ 20%	853 (632)	0.84	0.55
CDRH104RENP-331MC	331	330 $\pm$ 20%	1090 (810)	0.70	0.52

※ 1 Inductor measuring condition: at 100kHz.

※ 2 Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

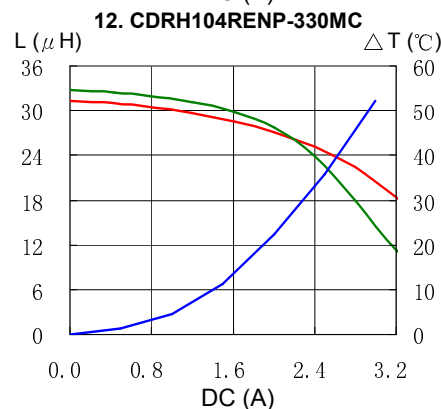
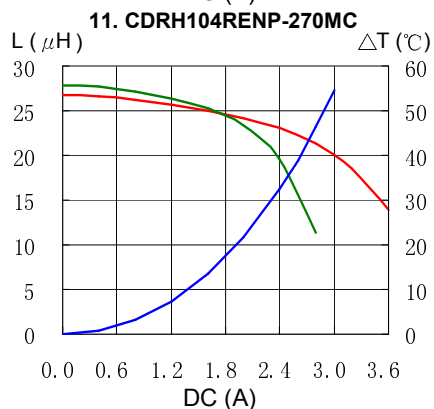
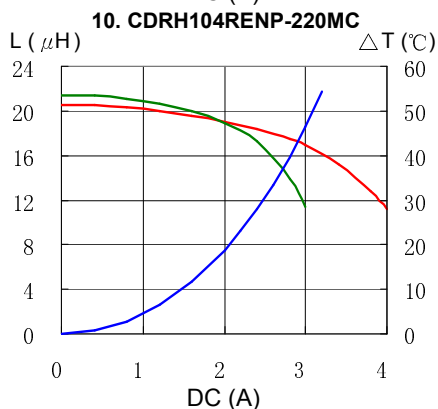
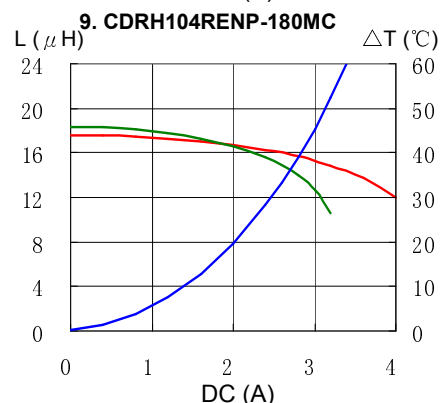
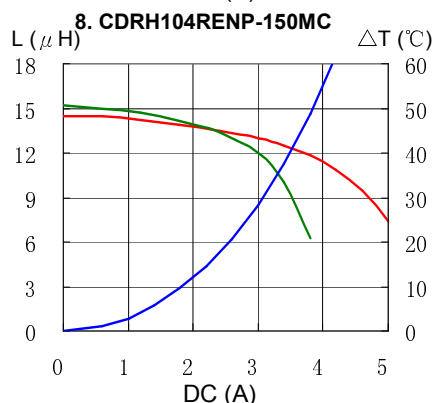
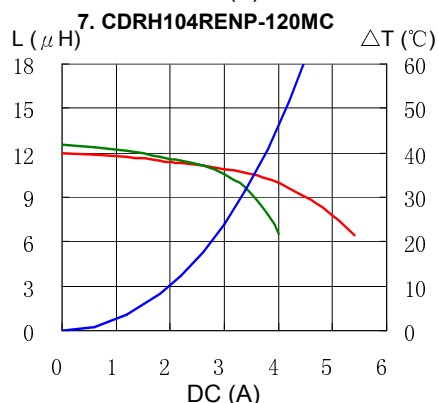
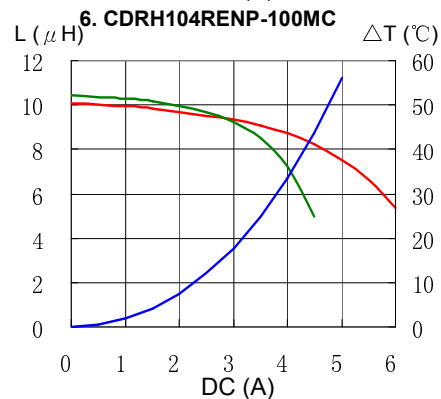
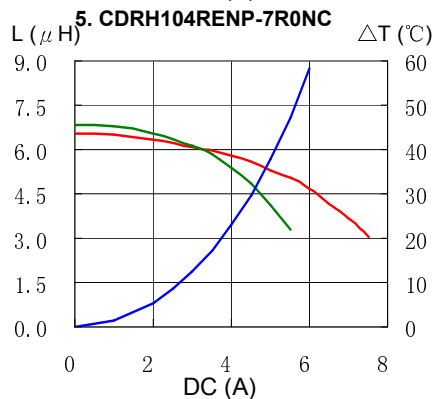
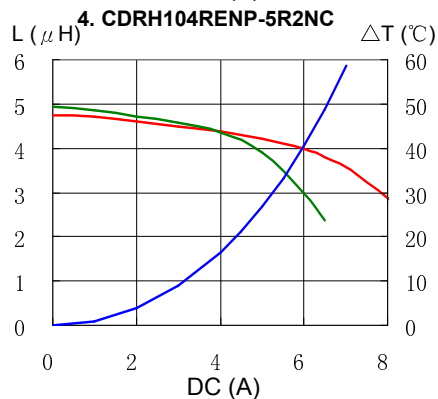
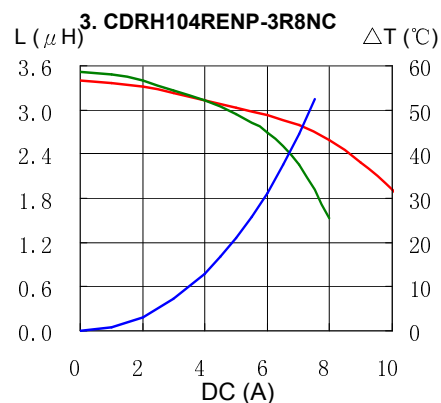
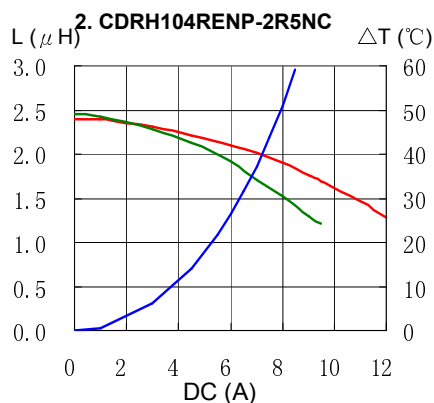
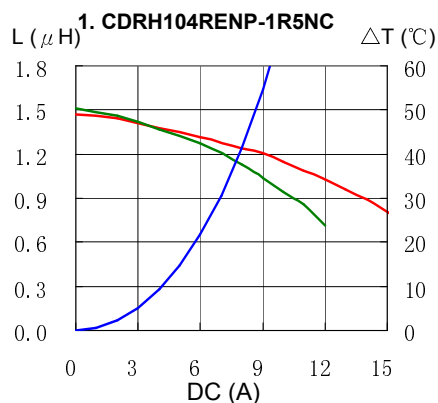
※ 3 Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=30^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH104R/E



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

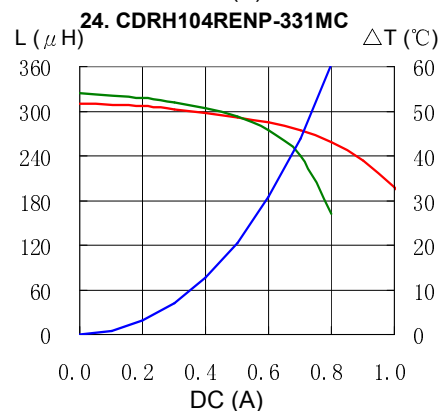
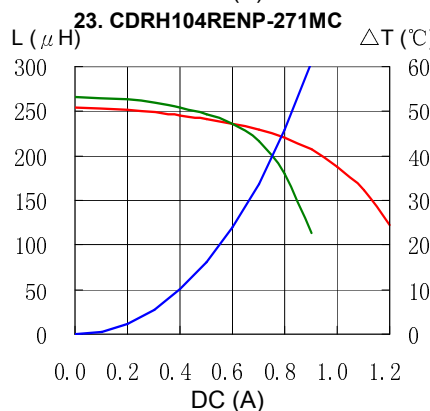
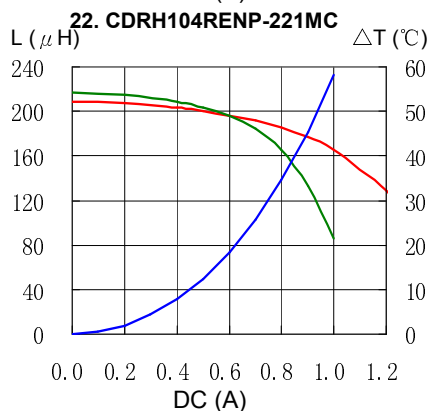
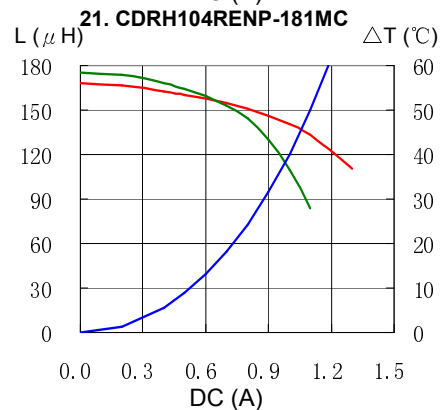
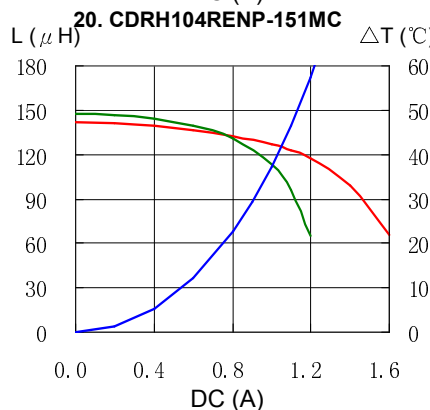
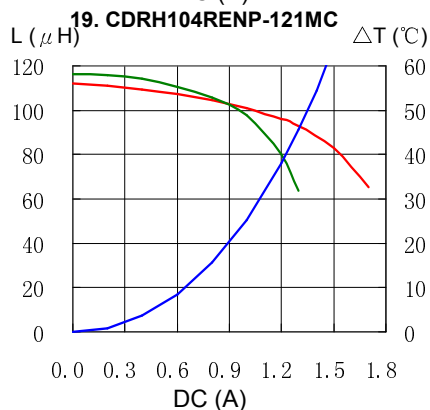
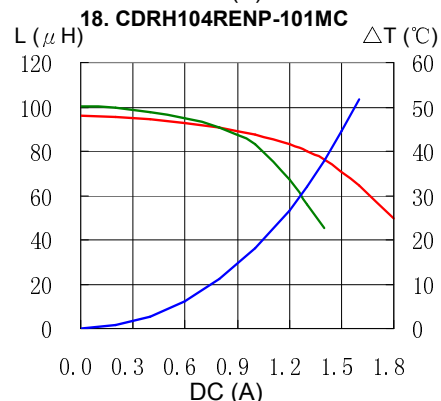
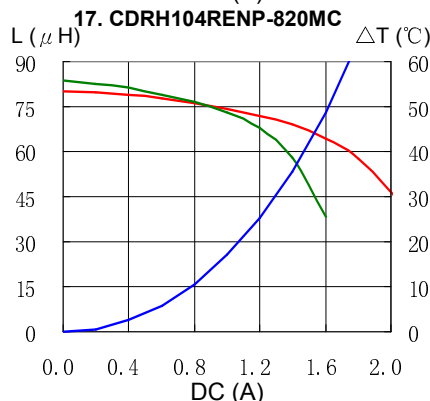
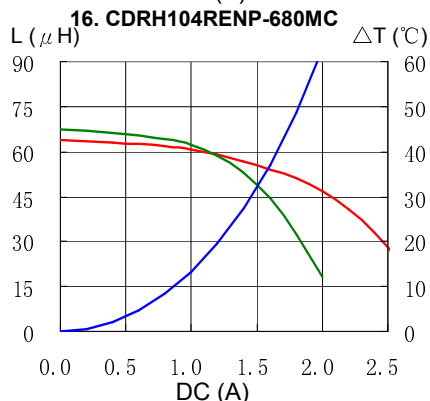
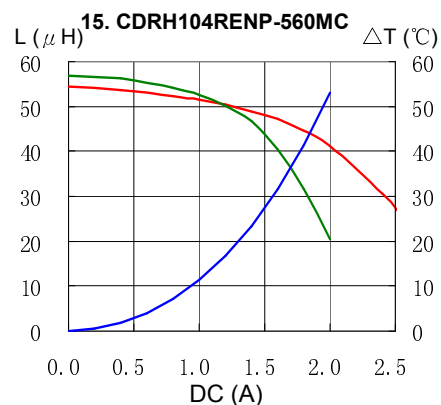
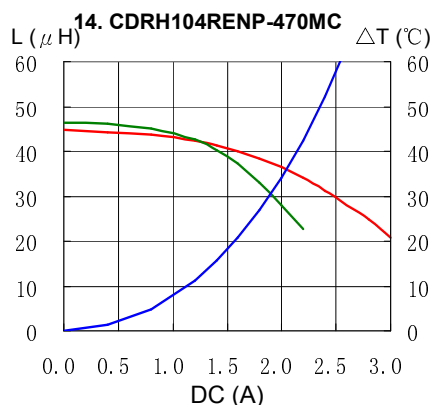
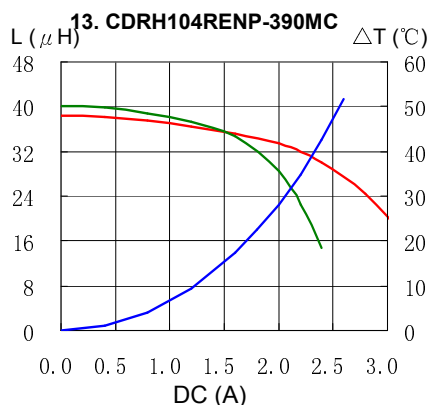


SMD Power Inductor CDRH104R/E



Saturation Current & Temperature Rise Graph

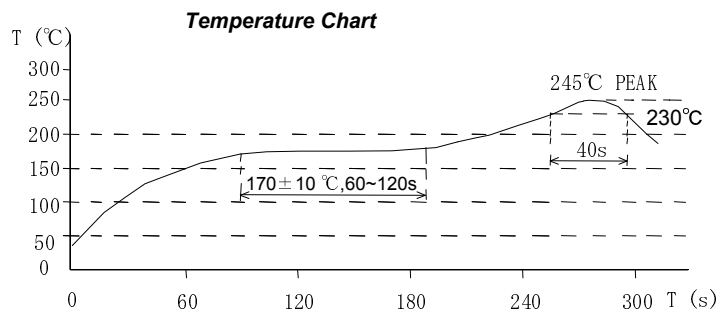
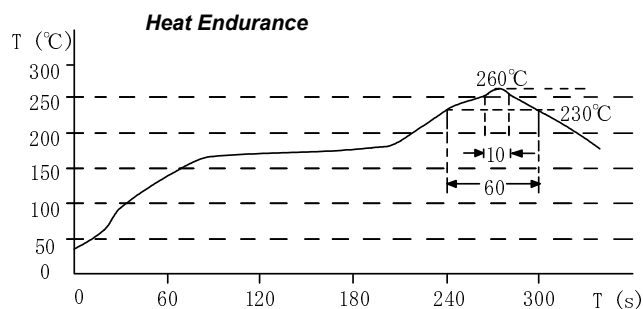
— L (20°C) — L (100°C) — ΔT



SMD Power Inductor CDRH104R/E



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
info@comp@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