

SMD Power Inductor CDRH127/LD



RoHS

Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.3 × 12.3 × 8.0 mm Max.
- Product weight: 3.6g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

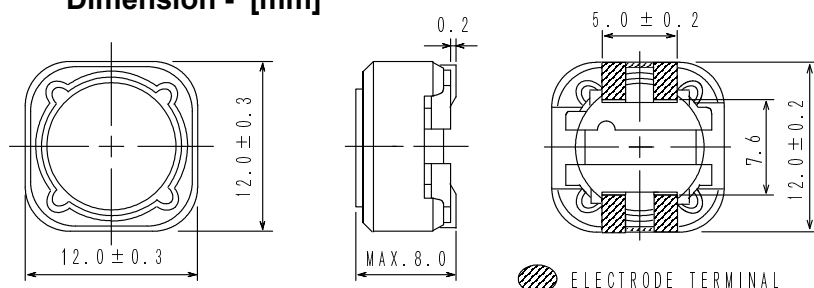
Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 500pcs per reel

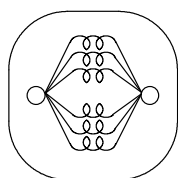
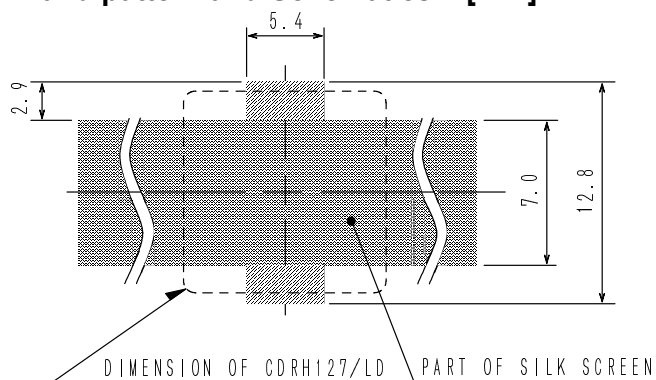
Applications

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

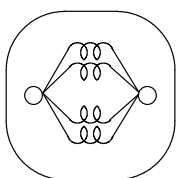
Dimension - [mm]



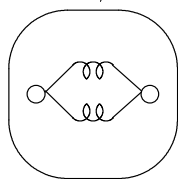
Land pattern and Schematics - [mm]



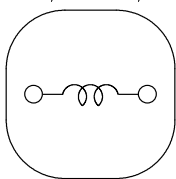
1.0 μ H



2.4 μ H ~ 56 μ H



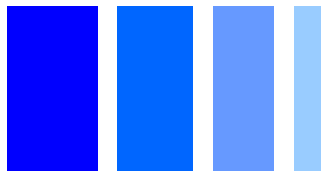
68 μ H ~ 150 μ H



180 μ H ~ 1 mH

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Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH127/LDHF-1R0NC	1R0	1.0 $\pm$ 30%	6.5m(5.0m)	14.0
CDRH127/LDHF-2R4NC	2R4	2.4 $\pm$ 30%	10.5m(8.1m)	10.3
CDRH127/LDHF-3R5NC	3R5	3.5 $\pm$ 30%	12.4m(9.5m)	9.30
CDRH127/LDHF-4R6NC	4R6	4.6 $\pm$ 30%	13.8m(10.6m)	9.10
CDRH127/LDHF-5R8NC	5R8	5.8 $\pm$ 30%	16.2m(12.4m)	8.60
CDRH127/LDHF-7R4NC	7R4	7.4 $\pm$ 30%	17.7m(13.6m)	7.40
CDRH127/LDHF-100MC	100	10 $\pm$ 20%	19.5m(15.0m)	6.70
CDRH127/LDHF-120MC	120	12 $\pm$ 20%	21.3m(16.4m)	6.45
CDRH127/LDHF-150MC	150	15 $\pm$ 20%	26.4m(20.3m)	5.65
CDRH127/LDHF-180MC	180	18 $\pm$ 20%	28.0m(21.5m)	5.10
CDRH127/LDHF-220MC	220	22 $\pm$ 20%	36.4m(28.0m)	4.70
CDRH127/LDHF-270MC	270	27 $\pm$ 20%	41.6m(32.0m)	4.20
CDRH127/LDHF-330MC	330	33 $\pm$ 20%	53.3m(41.0m)	3.90
CDRH127/LDHF-390MC	390	39 $\pm$ 20%	60.5m(46.5m)	3.50
CDRH127/LDHF-470MC	470	47 $\pm$ 20%	78.0m(60.0m)	3.25
CDRH127/LDHF-560MC	560	56 $\pm$ 20%	90.0m(69.0m)	2.90
CDRH127/LDHF-680MC	680	68 $\pm$ 20%	120m(92.0m)	2.60
CDRH127/LDHF-820MC	820	82 $\pm$ 20%	119m(91.0m)	2.40
CDRH127/LDHF-101MC	101	100 $\pm$ 20%	151m (119m)	2.10
CDRH127/LDHF-121MC	121	120 $\pm$ 20%	169m (130m)	1.90
CDRH127/LDHF-151MC	151	150 $\pm$ 20%	227m (174m)	1.80
CDRH127/LDHF-181MC	181	180 $\pm$ 20%	299m (230m)	1.55
CDRH127/LDHF-221MC	221	220 $\pm$ 20%	338m (260m)	1.45
CDRH127/LDHF-271MC	271	270 $\pm$ 20%	419m (322m)	1.30
CDRH127/LDHF-331MC	331	330 $\pm$ 20%	471m (362m)	1.20
CDRH127/LDHF-391MC	391	390 $\pm$ 20%	572m (440m)	1.10
CDRH127/LDHF-471MC	471	470 $\pm$ 20%	741m (570m)	1.00
CDRH127/LDHF-561MC	561	560 $\pm$ 20%	852m (655m)	0.95
CDRH127/LDHF-681MC	681	680 $\pm$ 20%	1.13 (870m)	0.85
CDRH127/LDHF-821MC	821	820 $\pm$ 20%	1.24 (950m)	0.75
CDRH127/LDHF-102MC	102	1000 $\pm$ 20%	1.50 (1.15)	0.70

※1. Inductance Measuring condition: at 100 kHz.

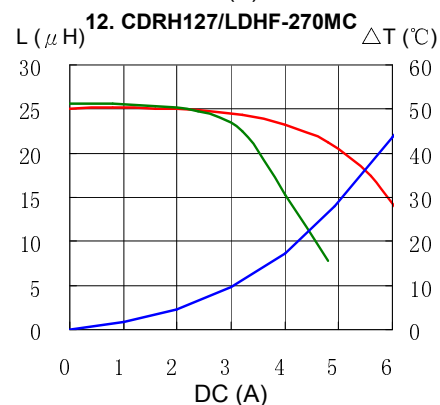
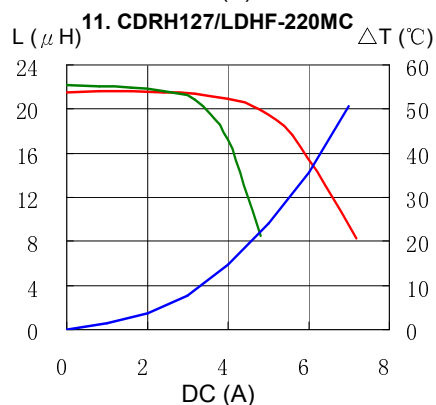
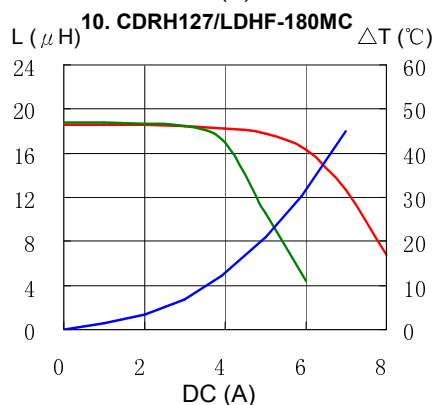
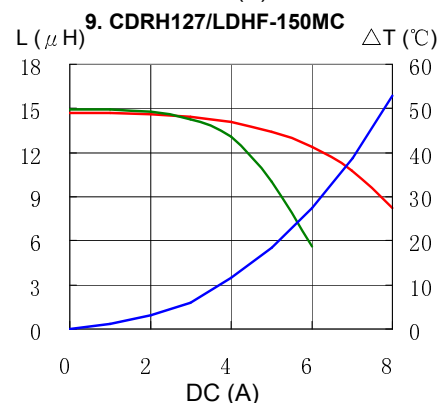
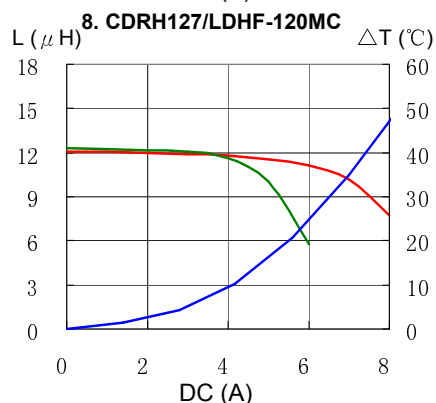
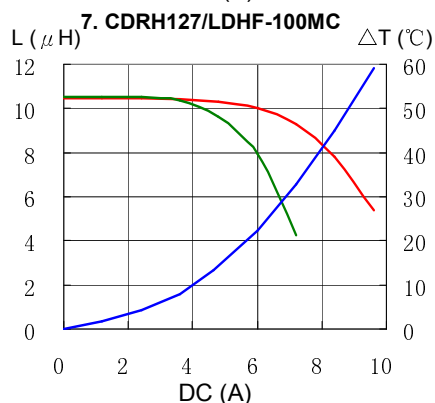
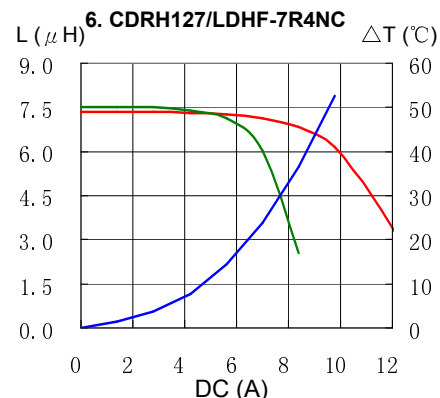
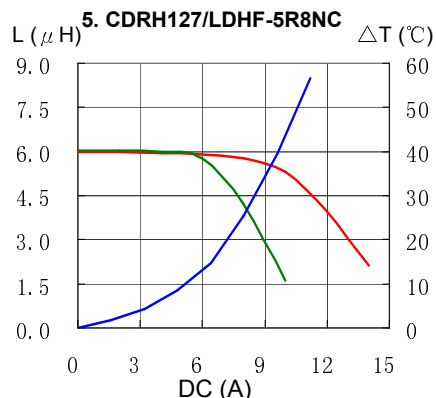
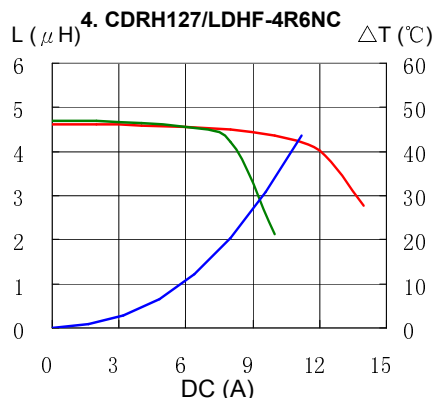
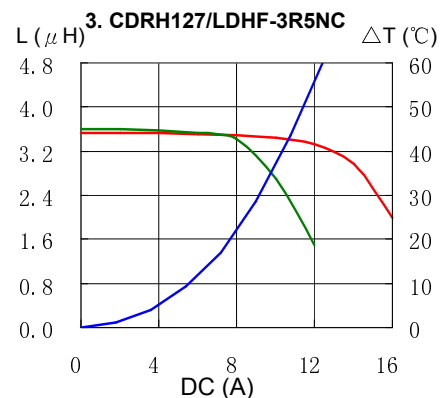
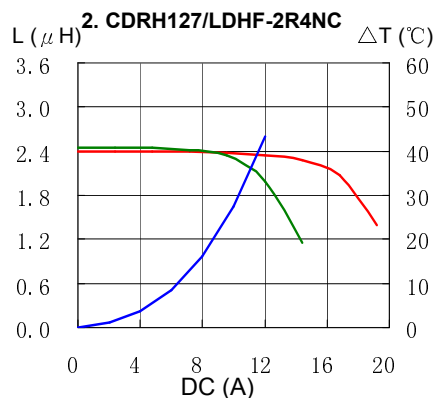
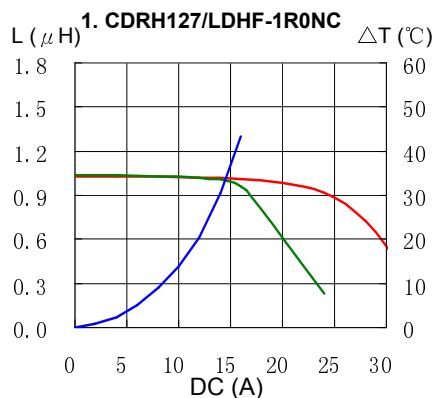
※2. Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower .

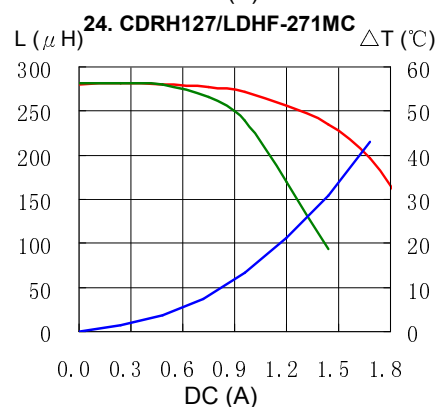
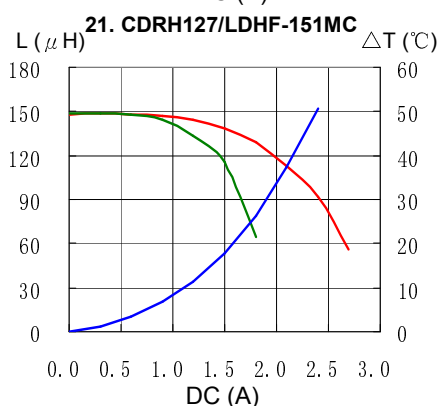
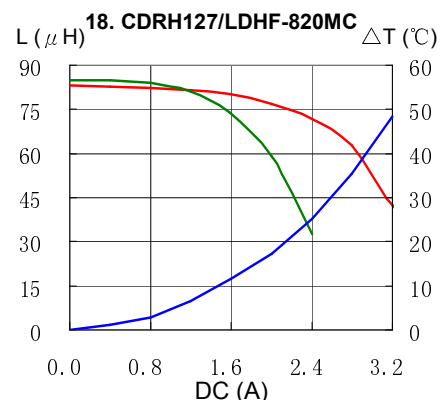
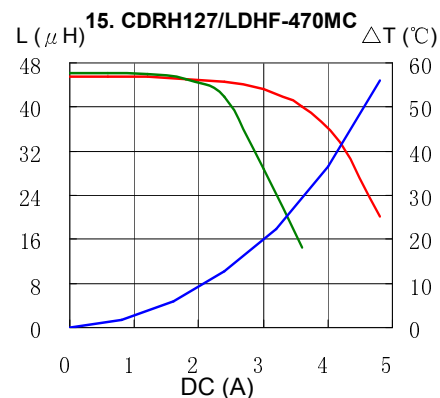
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



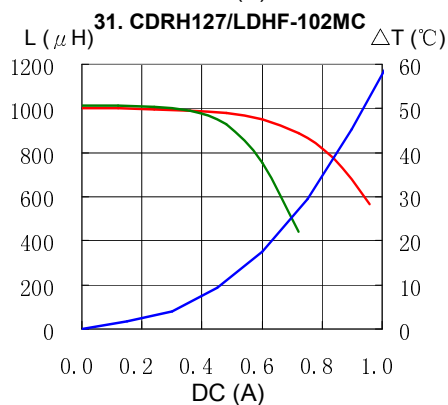
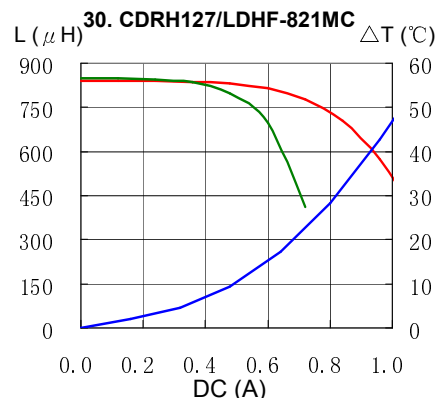
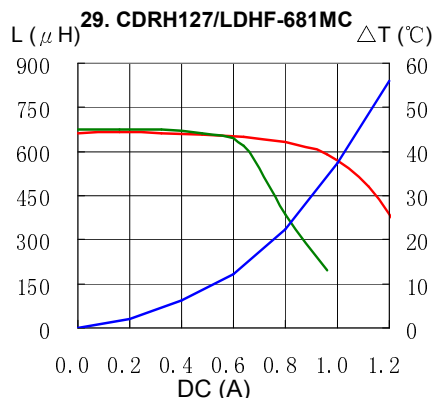
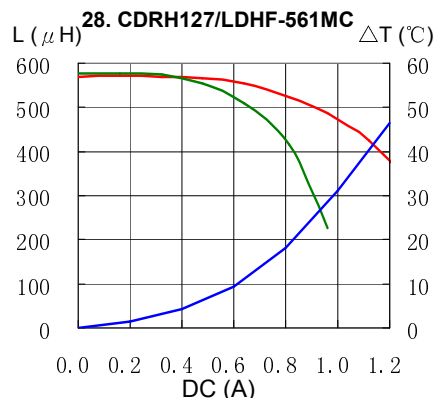
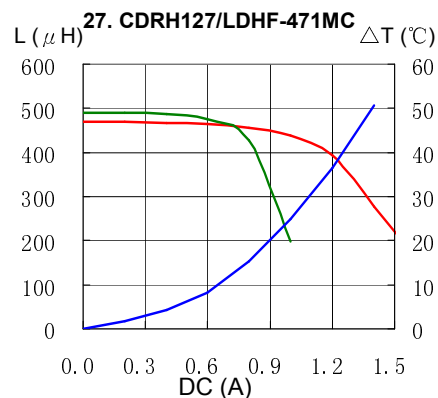
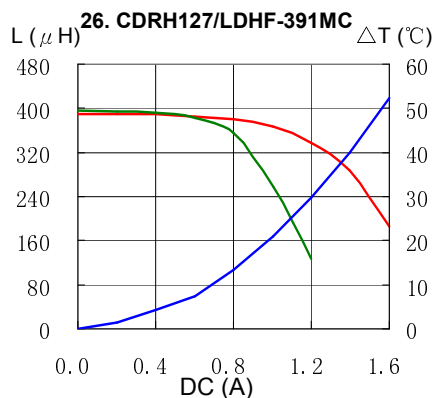
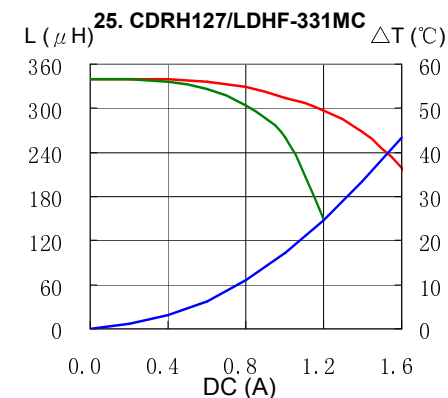


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Saturation Current & Temperature Rise Graph

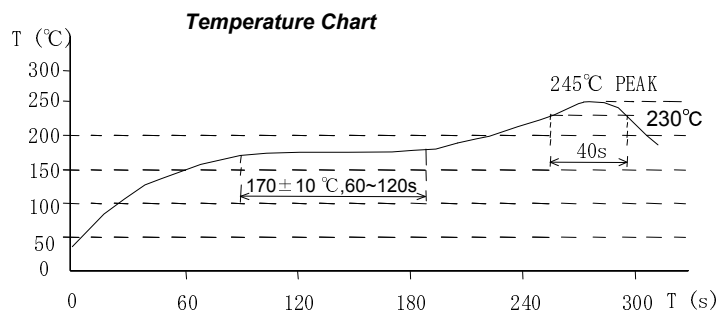
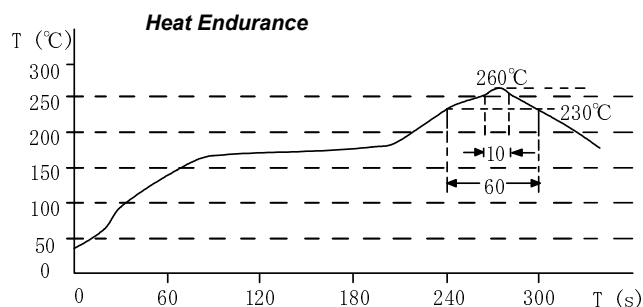
— L (20°C) — L (100°C) — ΔT



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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