

SMD Power Inductor CDH5D14/S



Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 6.0 × 6.0 × 1.5 mm Max.
- Product weight: 0.16g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

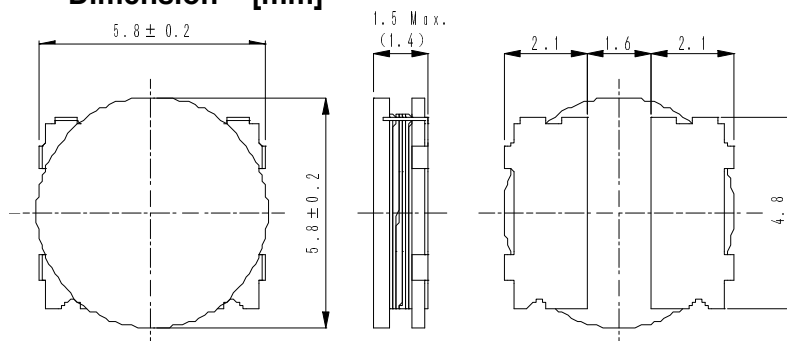
Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 3000pcs per reel

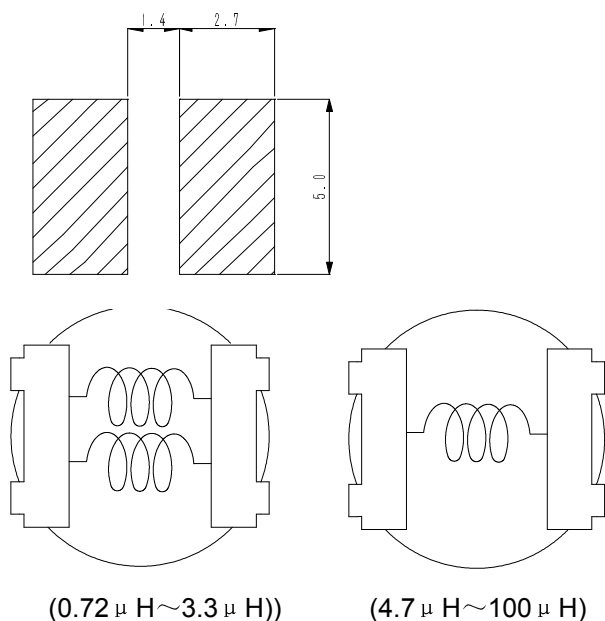
Applications

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

Dimension - [mm]

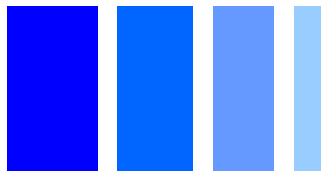


Land pattern and Schematics - [mm]



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Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) [within] (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDH5D14SNP-R72MC	R72	0.72 $\pm$ 20%	18 $\pm$ 20%	3.90	4.10
CDH5D14SNP-1R1MC	1R1	1.1 $\pm$ 20%	23 $\pm$ 20%	3.20	3.80
CDH5D14SNP-1R6MC	1R6	1.6 $\pm$ 20%	29 $\pm$ 20%	2.65	3.60
CDH5D14SNP-2R2MC	2R2	2.2 $\pm$ 20%	32 $\pm$ 20%	2.30	3.40
CDH5D14SNP-2R7MC	2R7	2.7 $\pm$ 20%	42 $\pm$ 20%	2.10	2.90
CDH5D14SNP-3R3MC	3R3	3.3 $\pm$ 20%	46 $\pm$ 20%	1.90	2.80
CDH5D14SNP-4R7MC	4R7	4.7 $\pm$ 20%	62 $\pm$ 20%	1.60	2.40
CDH5D14SNP-5R9MC	5R9	5.9 $\pm$ 20%	76 $\pm$ 20%	1.45	2.15
CDH5D14SNP-7R5MC	7R5	7.5 $\pm$ 20%	100 $\pm$ 20%	1.30	1.95
CDH5D14SNP-8R5MC	8R5	8.5 $\pm$ 20%	110 $\pm$ 20%	1.20	1.90
CDH5D14SNP-100MC	100	10 $\pm$ 20%	118 $\pm$ 20%	1.10	1.75
CDH5D14SNP-120MC	120	12 $\pm$ 20%	160 $\pm$ 20%	1.00	1.27
CDH5D14SNP-150MC	150	15 $\pm$ 20%	185 $\pm$ 20%	0.90	1.22
CDH5D14SNP-180MC	180	18 $\pm$ 20%	240 $\pm$ 20%	0.80	1.08
CDH5D14SNP-220MC	220	22 $\pm$ 20%	275 $\pm$ 20%	0.72	1.03
CDH5D14SNP-270MC	270	27 $\pm$ 20%	320 $\pm$ 20%	0.64	0.93
CDH5D14SNP-330MC	330	33 $\pm$ 20%	410 $\pm$ 20%	0.60	0.78
CDH5D14SNP-390MC	390	39 $\pm$ 20%	475 $\pm$ 20%	0.56	0.74
CDH5D14SNP-470MC	470	47 $\pm$ 20%	635 $\pm$ 20%	0.48	0.58
CDH5D14SNP-560MC	560	56 $\pm$ 20%	740 $\pm$ 20%	0.43	0.56
CDH5D14SNP-680MC	680	68 $\pm$ 20%	825 $\pm$ 20%	0.40	0.54
CDH5D14SNP-820MC	820	82 $\pm$ 20%	980 $\pm$ 20%	0.36	0.46
CDH5D14SNP-101MC	101	100 $\pm$ 20%	1130 $\pm$ 20%	0.32	0.44

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

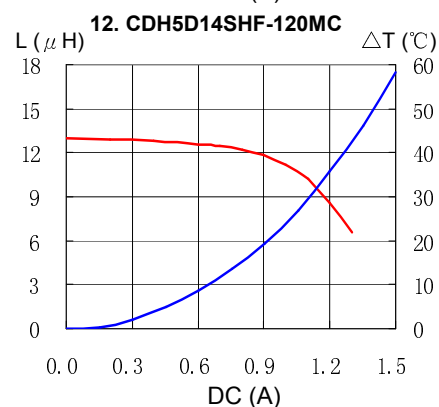
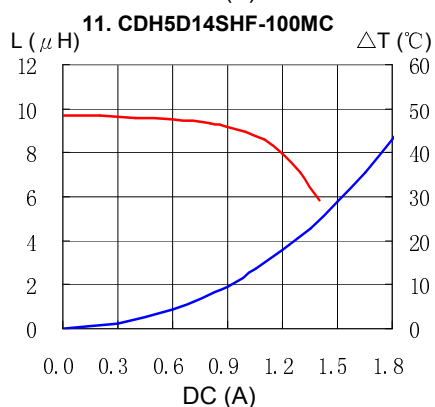
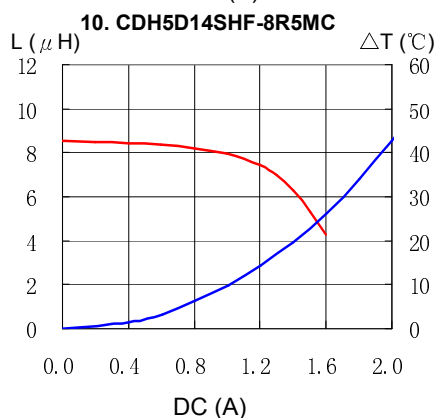
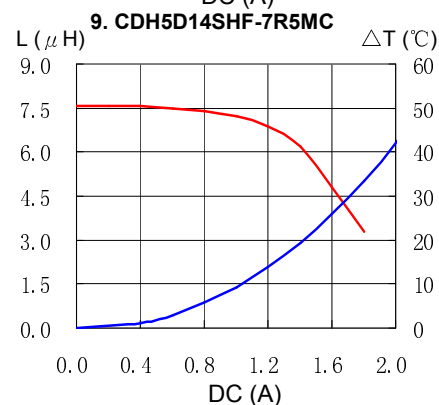
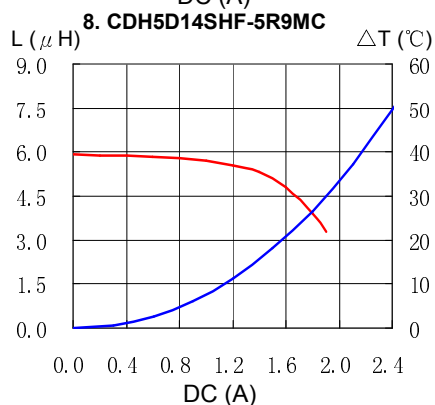
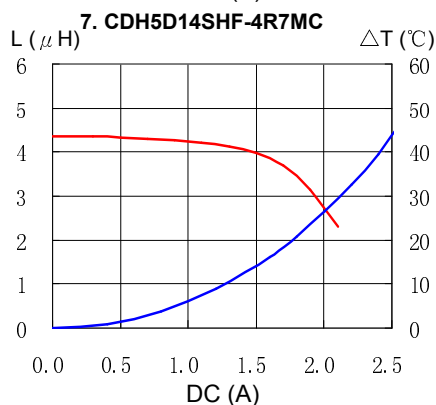
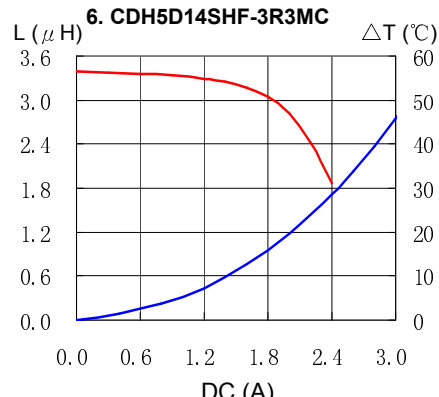
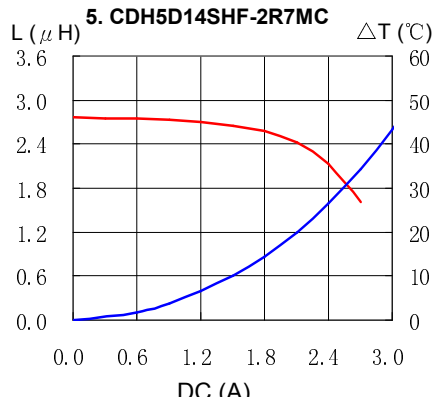
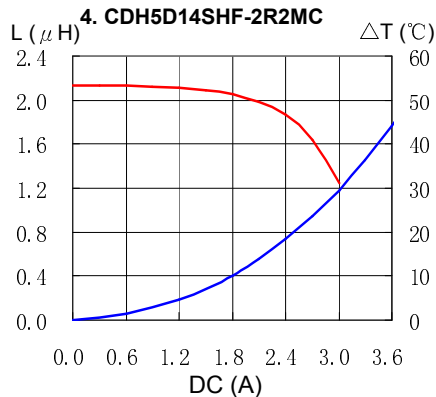
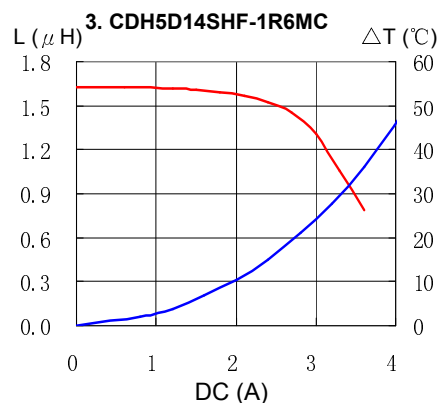
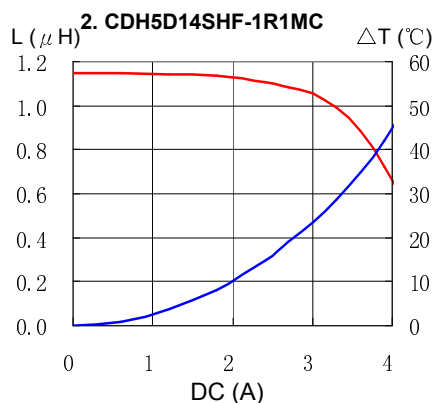
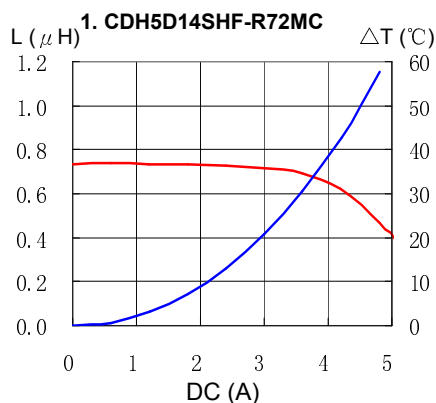
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

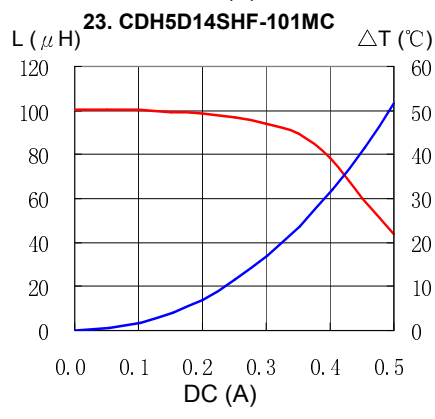
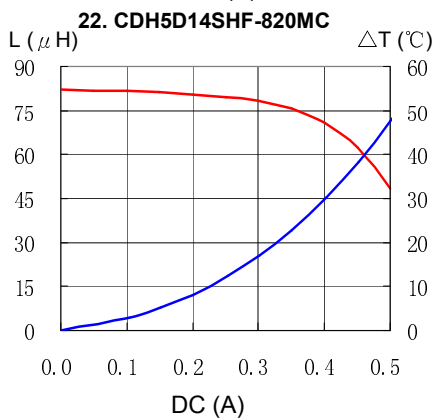
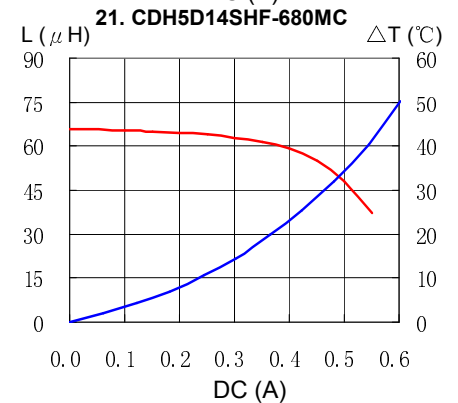
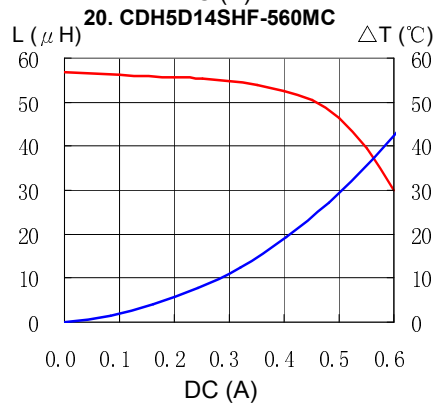
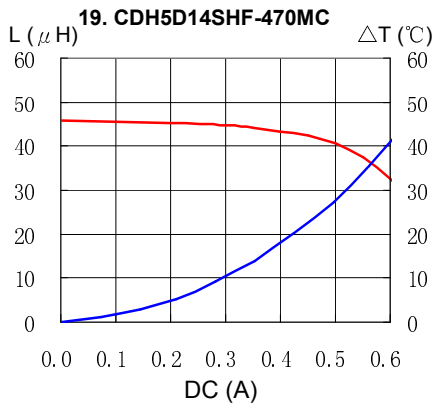
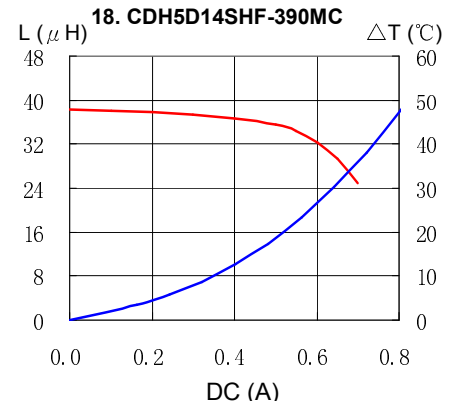
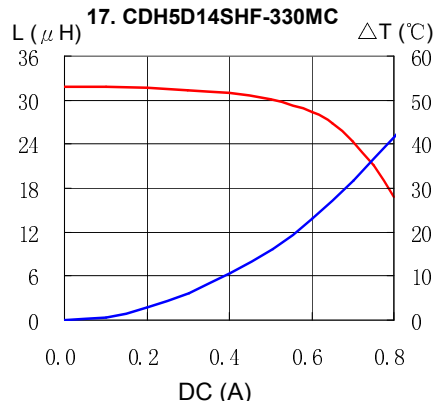
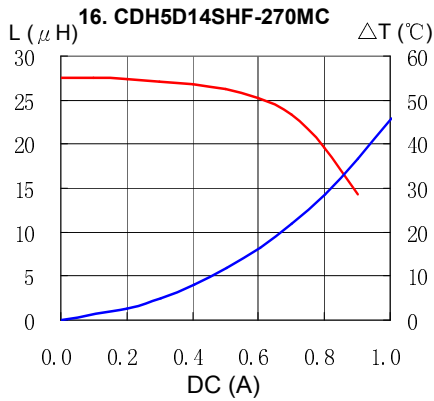
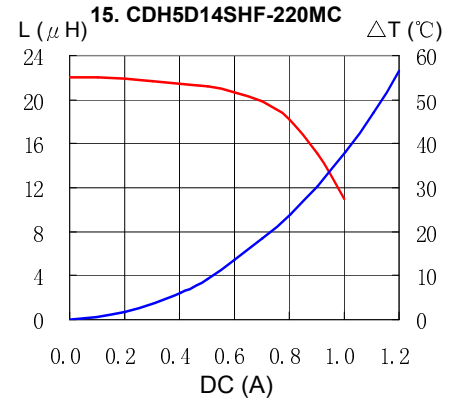
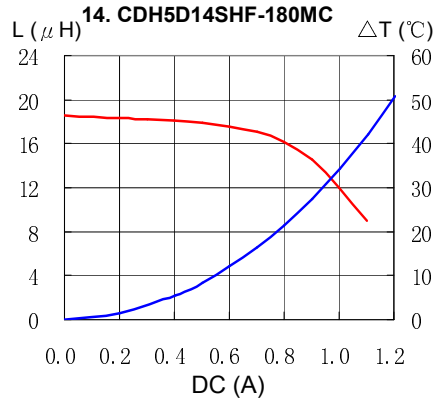
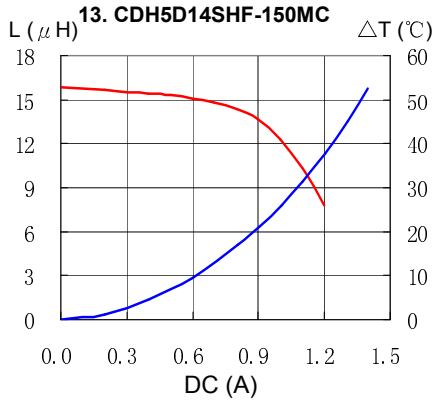


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Saturation Current & Temperature Rise Graph

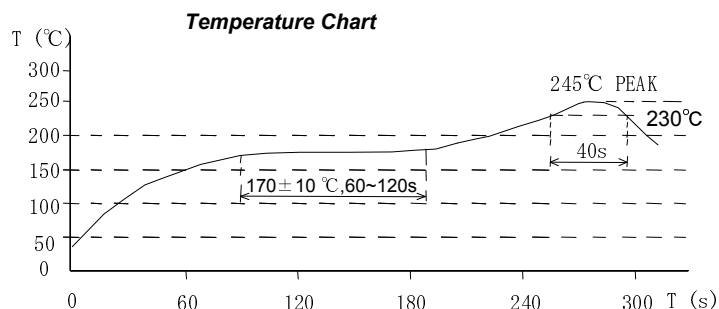
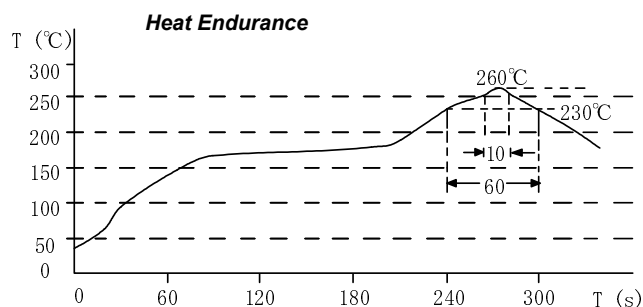
— L (20°C) — ΔT



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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