

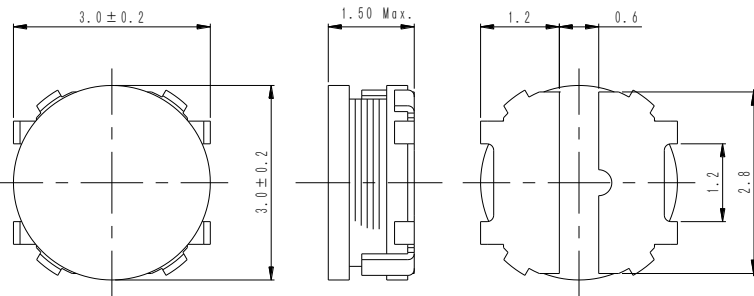
SMD Power Inductor CDH30D14/H125



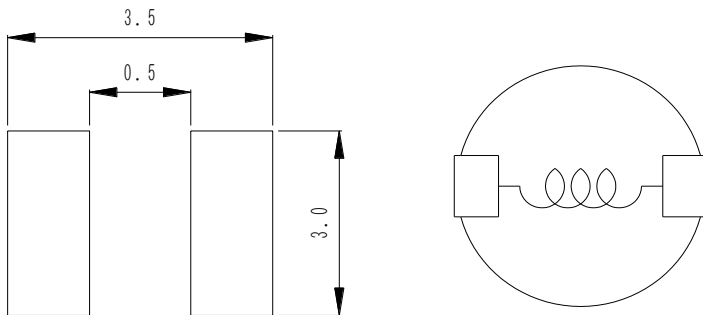
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 3.2 × 3.2 × 1.5 mm Max.
- Product weight: 48mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

Packaging

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

Applications

- Automotive and other high temperature, high reliability application.



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [Within] ※1	D.C.R. (m Ω) [Within] (at 20°C)	Allowable D.C. bias current (A)※2		Temperature rise current (A) ※3
				(at 20°C)	(at 125°C)	
CDH30D14H125NP-1R0MC	A	1.0 \pm 20%	55 \pm 25%	2.7	2.2	2.3
CDH30D14H125NP-2R2MC	B	2.2 \pm 20%	105 \pm 25%	1.9	1.5	1.6
CDH30D14H125NP-3R3MC	C	3.3 \pm 20%	155 \pm 25%	1.5	1.3	1.3
CDH30D14H125NP-4R7MC	E	4.7 \pm 20%	200 \pm 25%	1.3	1.1	1.2
CDH30D14H125NP-5R6MC	D	5.6 \pm 20%	250 \pm 25%	1.1	0.95	0.90
CDH30D14H125NP-6R8MC	G	6.8 \pm 20%	350 \pm 25%	1.0	0.80	0.78
CDH30D14H125NP-100MC	F	10.0 \pm 20%	520 \pm 25%	0.95	0.70	0.64

※1 Measuring frequency inductance at 100kHz,1V.

※2 Allowable D.C. bias current: the value of D.C. current when inductance is above 70% of its initial value.

※3 Temperature rise current: the actual value of D.C. current when temperature of coil increased

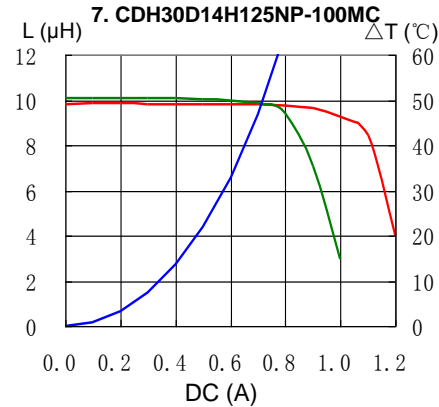
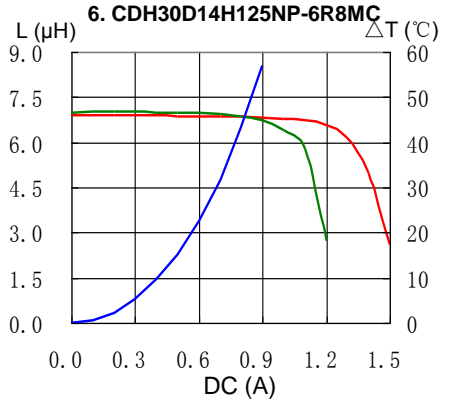
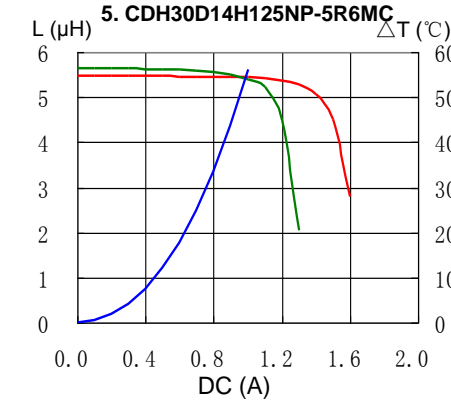
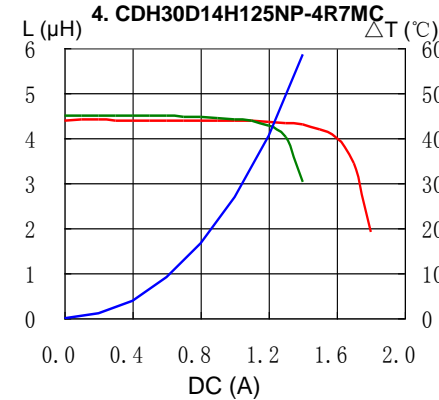
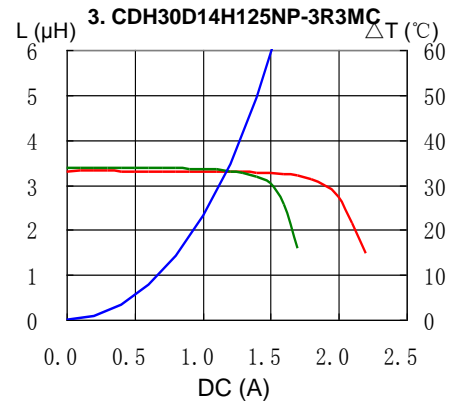
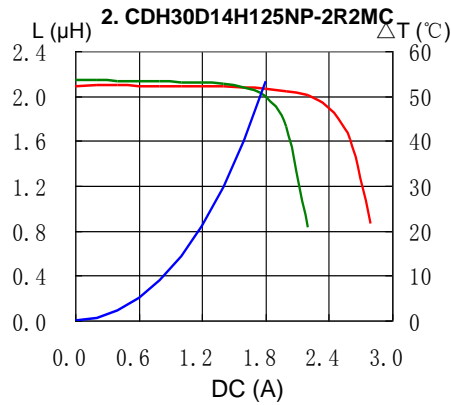
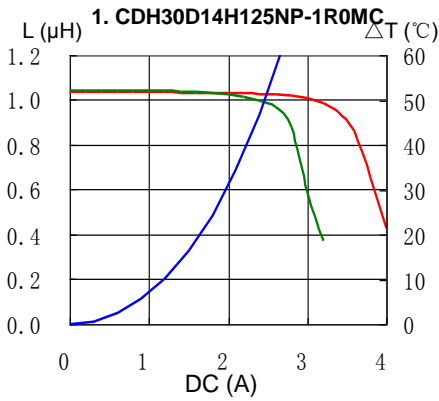
$\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT

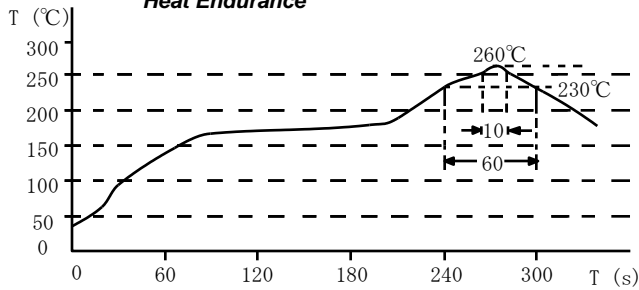


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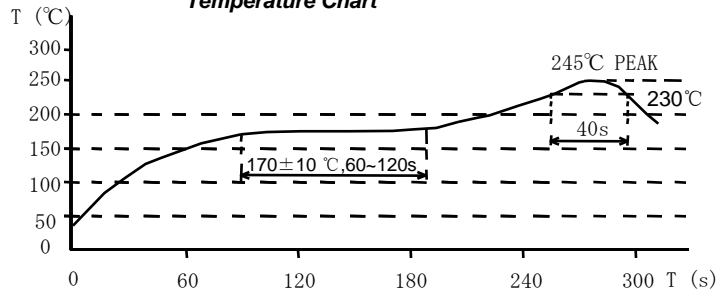


Solder Reflow Condition

Heat Endurance



Temperature Chart



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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