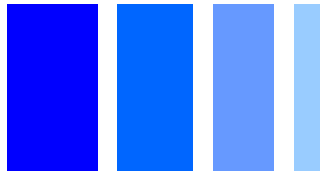


SMD Power Inductor CDRH40D18/A



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Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.5 × 4.5 × 2.0 mm Max.
- Product weight: 0.1g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

Environmental Data

- Operating temperature range: -40°C~+125°C (excluding coil's self temperature rise)
- Storage temperature range: -40°C~+85°C
- Solder reflow temperature: 260 °C peak.

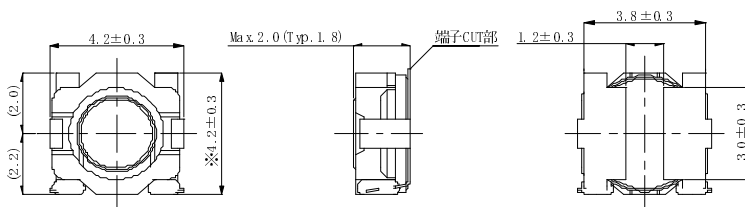
Packaging

- Carrier tape and reel packaging.

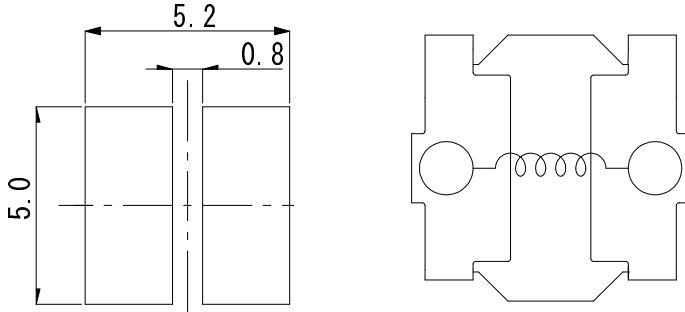
Applications

- Automotive and other high temperature, high reliability application.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) [within] (at 20°C)	Rated Current (mA) (at 125°C) ※2
CDRH40D18ANP-2R2NC	G	2.2 ± 30%	63(50)	1360
CDRH40D18ANP-3R3NC	J	3.3 ± 30%	108(86)	1100
CDRH40D18ANP-4R7NC	A	4.7 ± 30%	128(102)	840
CDRH40D18ANP-6R8NC	B	6.8 ± 30%	205(164)	730
CDRH40D18ANP-100NC	C	10 ± 30%	338(270)	590
CDRH40D18ANP-150NC	D	15 ± 30%	428(342)	490
CDRH40D18ANP-220NC	E	22 ± 30%	615(492)	410
CDRH40D18ANP-330NC	F	33 ± 30%	1175(940)	310
CDRH40D18ANP-470NC	H	47 ± 30%	1500(1200)	280

※1. Measuring condition: at 100 kHz.

※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when Δt=30°C, whichever is lower.

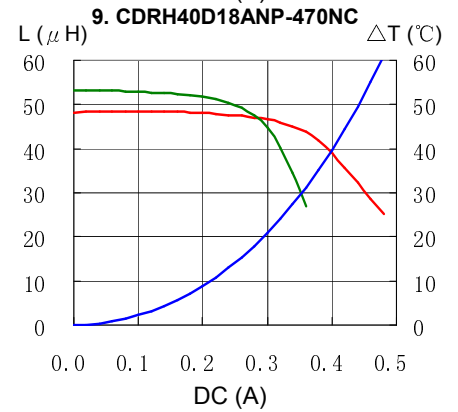
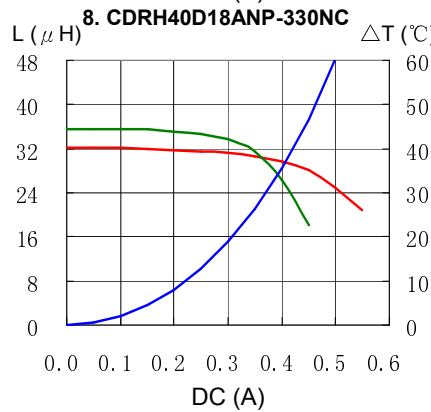
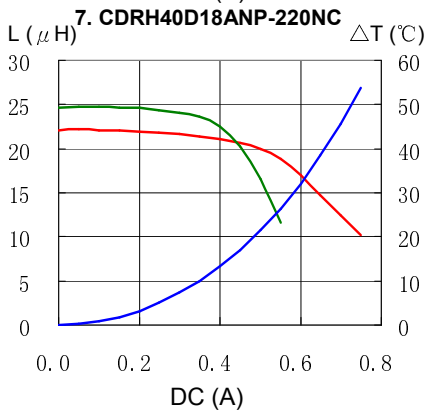
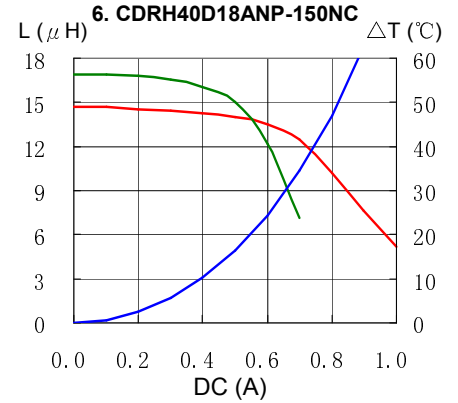
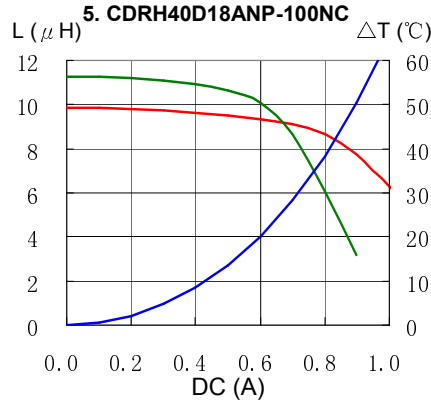
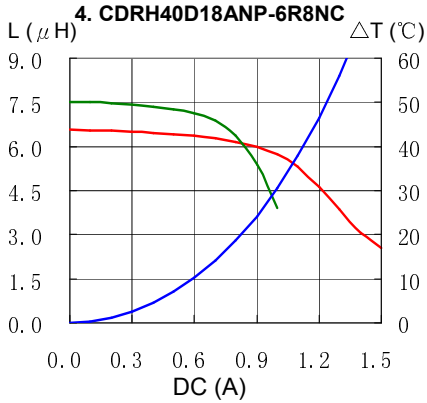
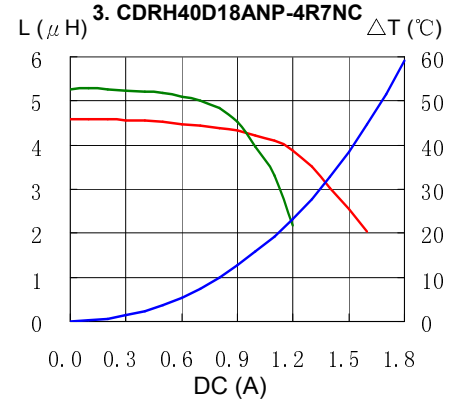
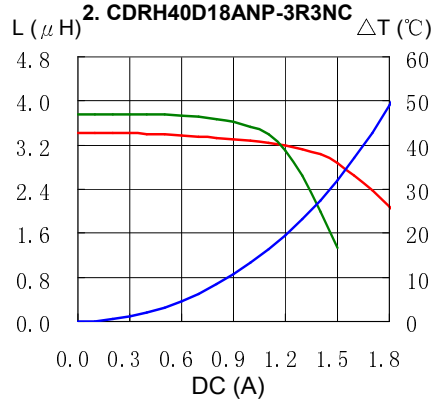
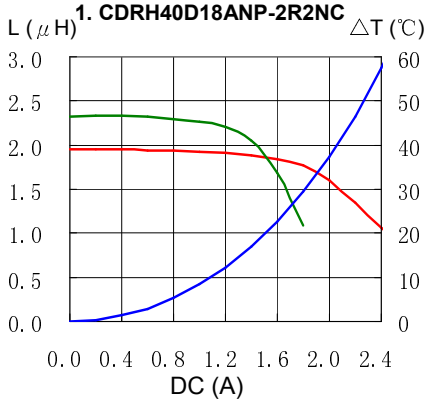
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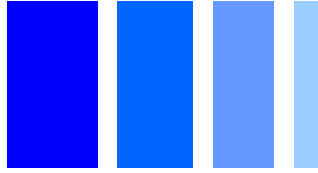
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (155°C) — ΔT



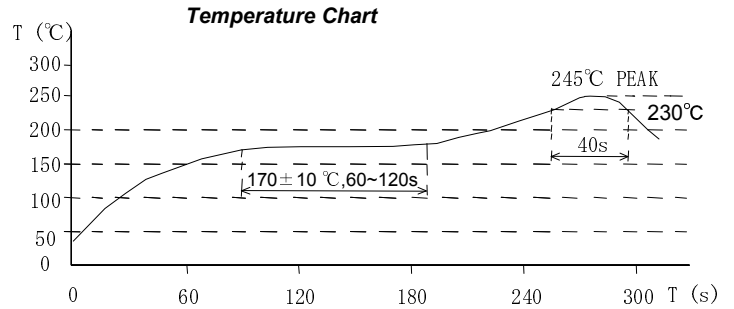
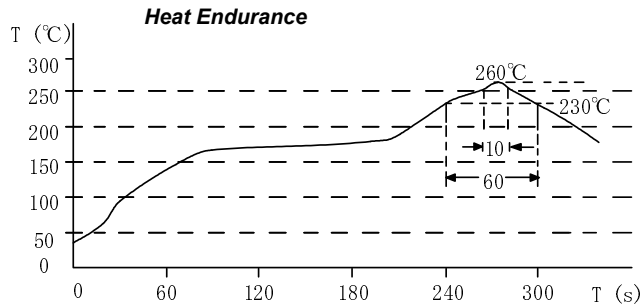
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Solder Reflow Condition



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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

Oberzell

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