

SMD Power Inductor CDRH40D18/A



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

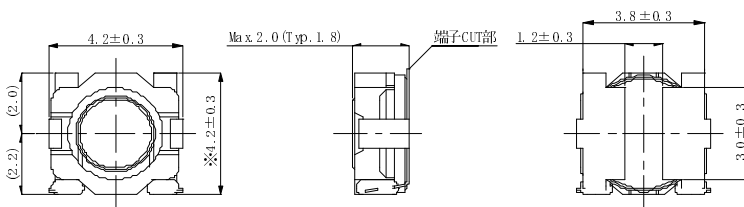
Packaging

- Carrier tape and reel packaging.

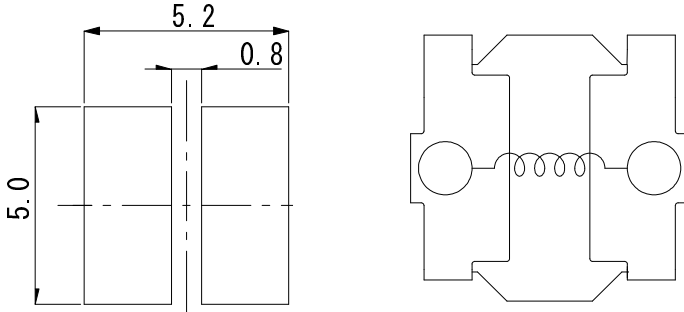
Applications

- Automotive and other high temperature, high reliability application.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (mΩ) [Max.] (Typ.) (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.

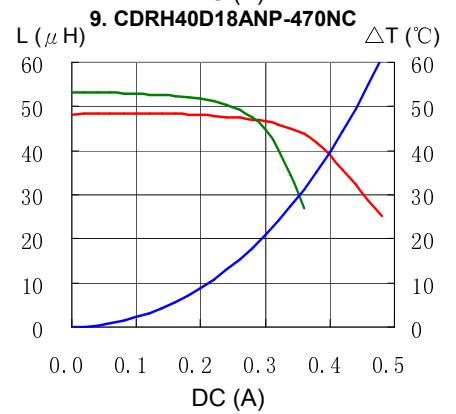
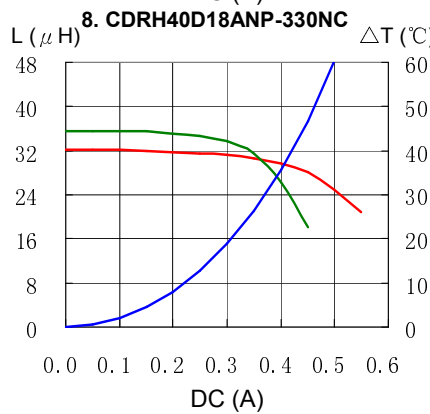
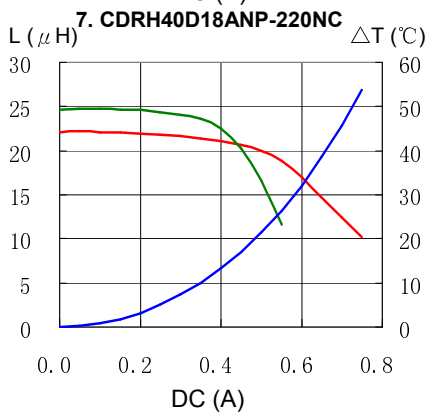
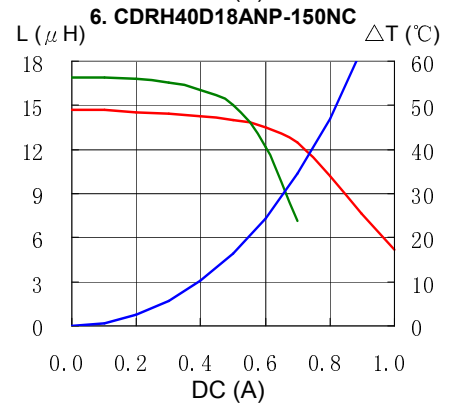
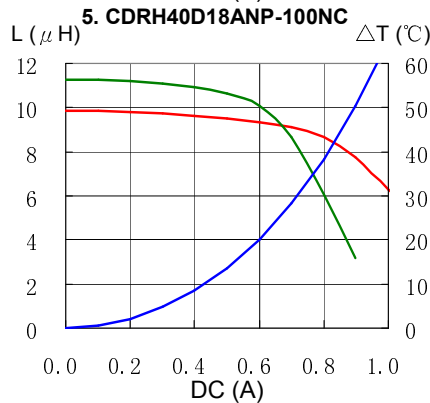
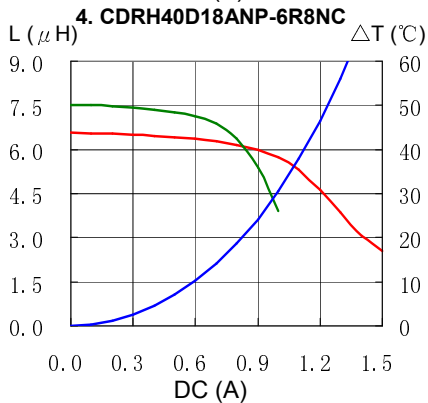
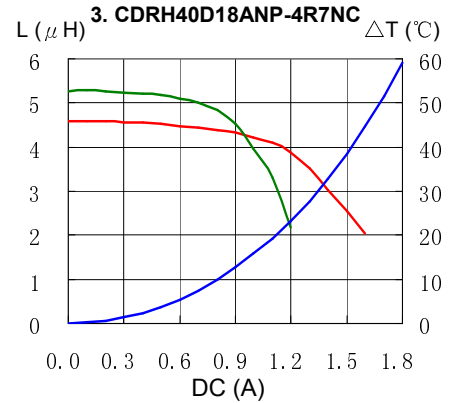
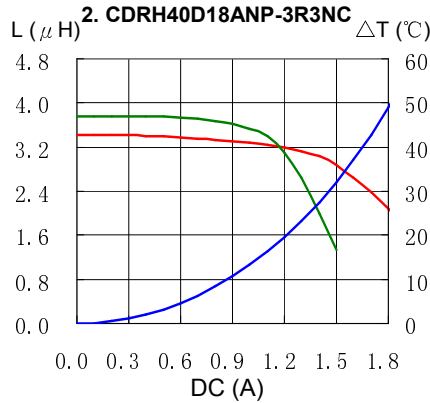
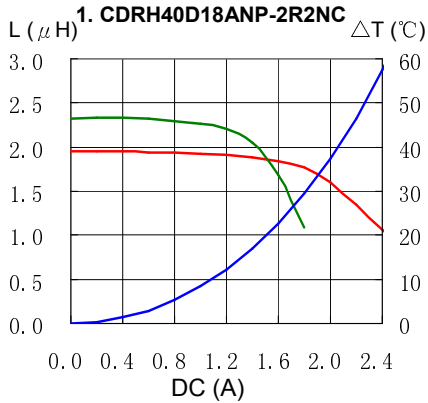
※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when Δt=30°C, whichever is lower.

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Saturation Current & Temperature Rise Graph

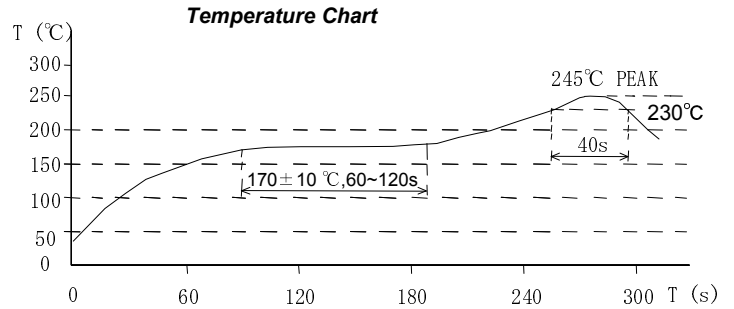
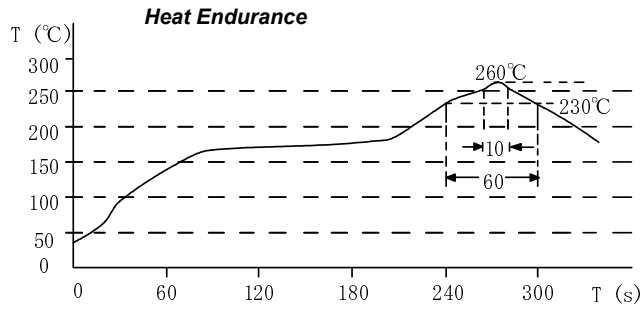
— L (20°C) — L (155°C) — ΔT



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Solder Reflow Condition



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