

SMD Power Inductor CDRH60D18R



 **sumida**

Under Development



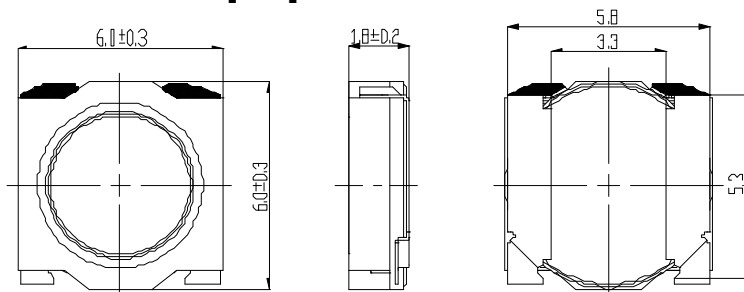
**Halogen
Free**



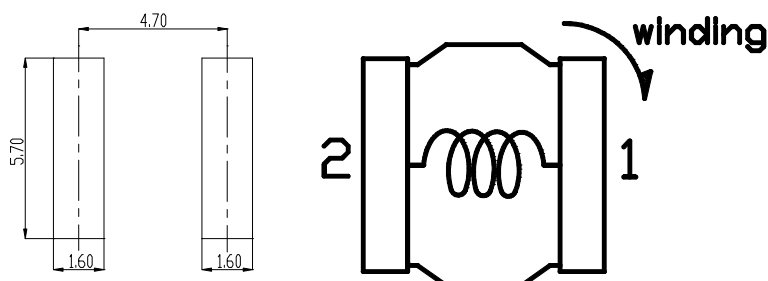
Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.3 × 6.3 × 2.0 mm Max.
- Product weight: 0.4g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



Land pattern and Schematics - [mm]



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.

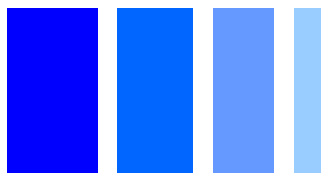
Packaging

- Carrier tape and reel packaging

Applications

- Ideally used in Slim-type TV, car navigation, etc. as DC-DC converter.

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Electrical Characteristics

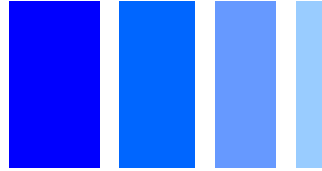
Part No.	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) [within] (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDRH60D18RHF-1R5NC	A	1.5 $\pm$ 30%	25 $\pm$ 30%	4.2	3.4
CDRH60D18RHF-2R2NC	B	2.2 $\pm$ 30%	30 $\pm$ 30%	3.2	3.0
CDRH60D18RHF-3R3NC	C	3.3 $\pm$ 30%	40 $\pm$ 30%	2.8	2.7
CDRH60D18RHF-4R7NC	D	4.7 $\pm$ 30%	58 $\pm$ 30%	2.4	2.2
CDRH60D18RHF-6R8NC	E	6.8 $\pm$ 30%	85 $\pm$ 30%	2.0	1.8
CDRH60D18RHF-100MC	F	10 $\pm$ 20%	128 $\pm$ 25%	1.6	1.4
CDRH60D18RHF-150MC	G	15 $\pm$ 20%	160 $\pm$ 25%	1.3	1.3
CDRH60D18RHF-220MC	H	22 $\pm$ 20%	240 $\pm$ 25%	1.1	1.0
CDRH60D18RHF-330MC	J	33 $\pm$ 20%	330 $\pm$ 25%	0.91	0.90
CDRH60D18RHF-470MC	K	47 $\pm$ 20%	490 $\pm$ 25%	0.75	0.75
CDRH60D18RHF-680MC	M	68 $\pm$ 20%	680 $\pm$ 25%	0.62	0.65
CDRH60D18RHF-101MC	N	100 $\pm$ 20%	1000 $\pm$ 25%	0.50	0.50

※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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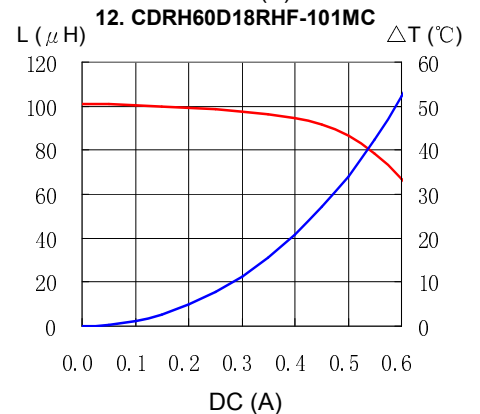
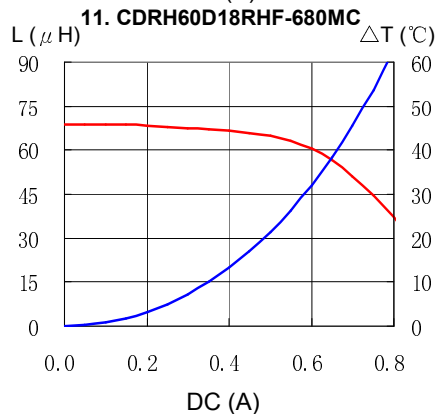
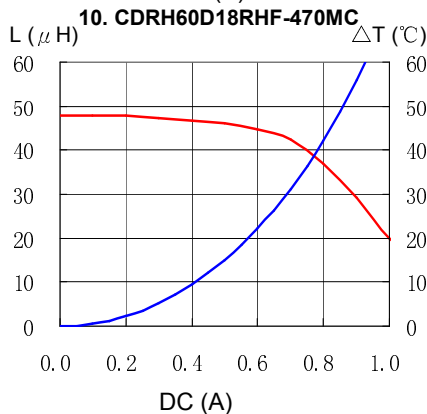
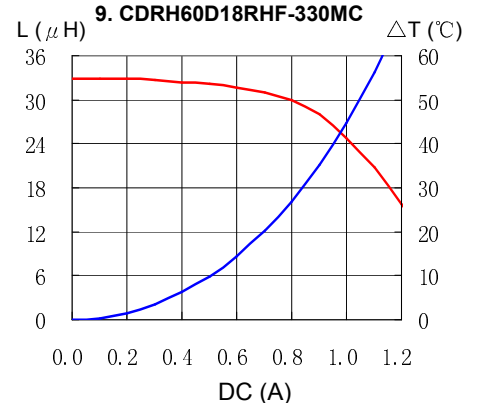
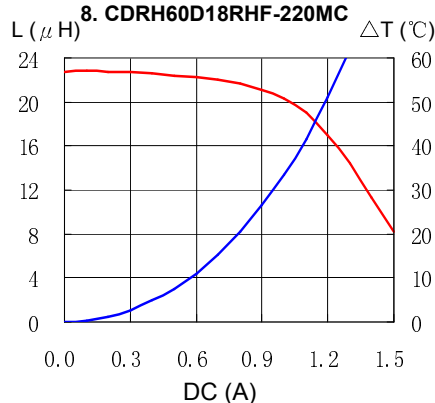
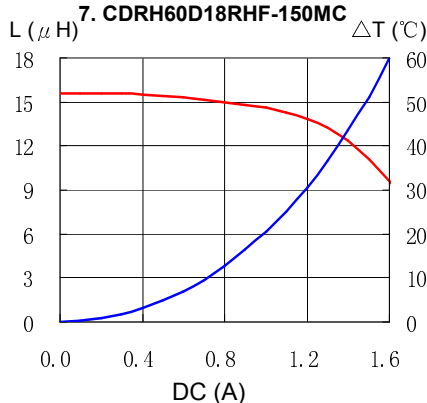
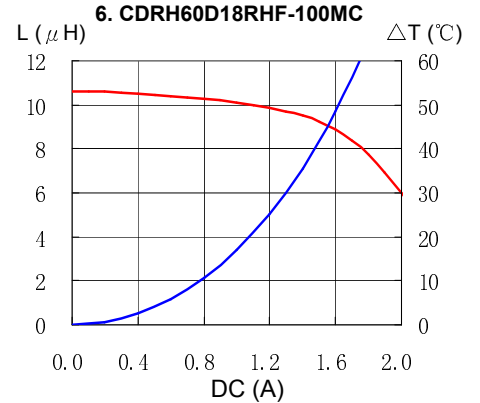
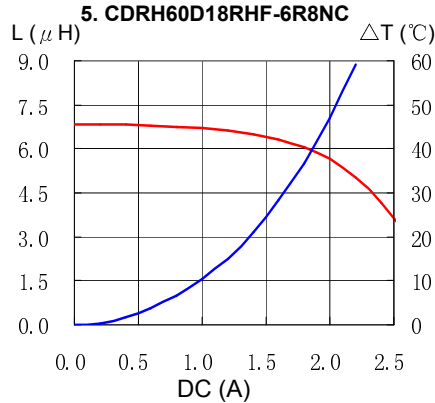
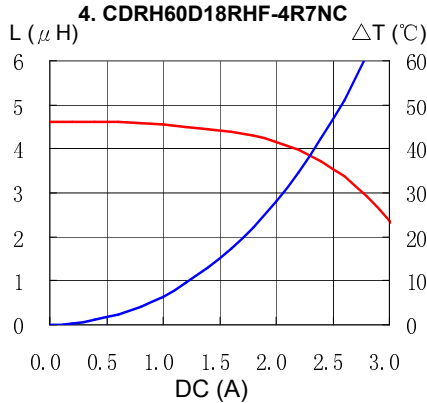
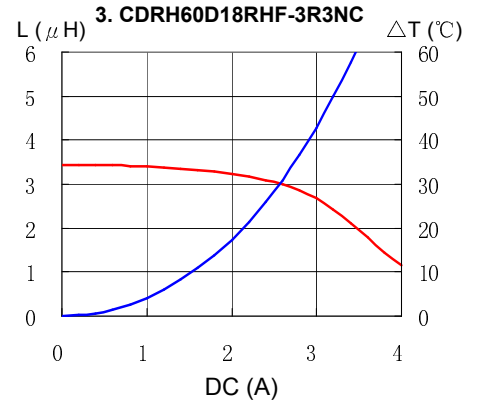
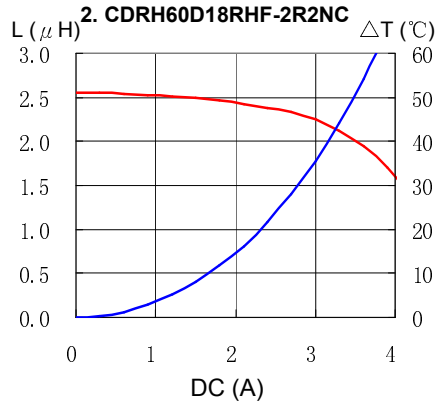
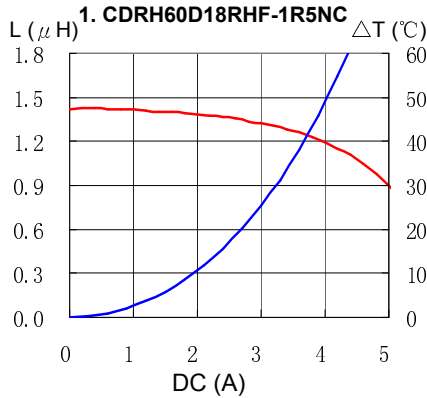


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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

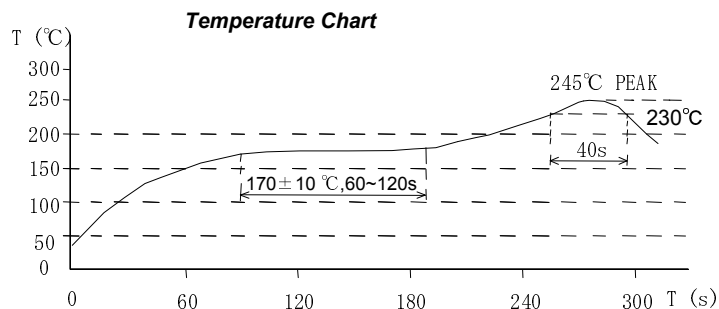
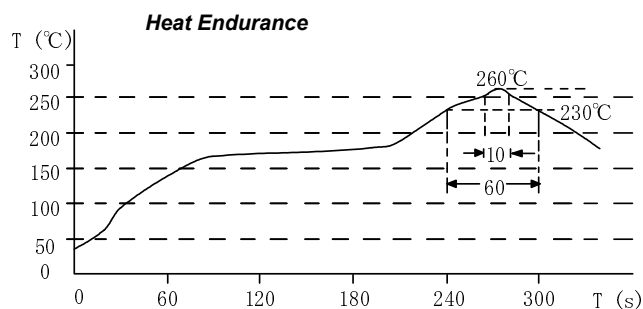


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Solder Reflow Condition



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