

SMD Power Inductor CDRH58D18R



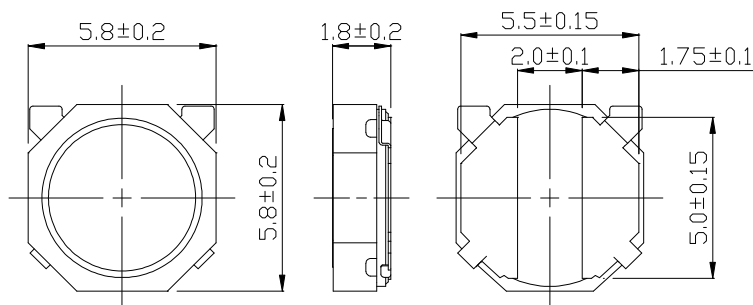
Halogen
Free



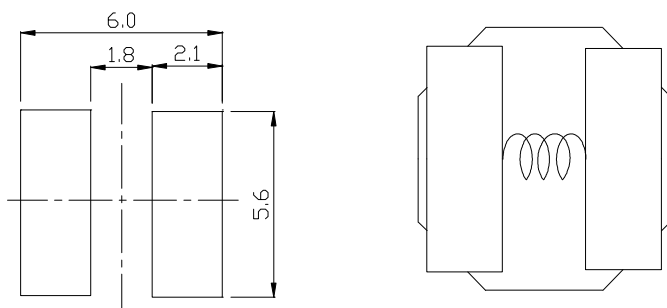
Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.0 × 6.0 × 2.0mm Max.
- Product weight: 0.24g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.
- 13.0" diameter reel
- 3000pcs per reel

Applications

- Ideally used in DVD, camcorder, Single -lens reflex camera etc.

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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
				(at 20°C)	(at 105°C)	
CDRH58D18RNP-R90NC	A	0.9 $\pm$ 30%	15 $\pm$ 25%	3.74	2.80	5.35
CDRH58D18RNP-1R5NC	B	1.5 $\pm$ 30%	18 $\pm$ 25%	2.95	2.20	4.60
CDRH58D18RNP-2R0NC	C	2.0 $\pm$ 30%	23 $\pm$ 25%	2.66	1.93	4.42
CDRH58D18RNP-3R6NC	D	3.6 $\pm$ 30%	29 $\pm$ 25%	2.03	1.47	3.65
CDRH58D18RNP-4R7MC	E	4.7 $\pm$ 20%	31 $\pm$ 25%	1.74	1.30	3.45
CDRH58D18RNP-6R8MC	F	6.8 $\pm$ 20%	50 $\pm$ 25%	1.44	1.07	2.73
CDRH58D18RNP-100MC	G	10 $\pm$ 20%	74 $\pm$ 25%	1.17	0.87	2.12
CDRH58D18RNP-150MC	H	15 $\pm$ 20%	110 $\pm$ 20%	0.95	0.70	1.75
CDRH58D18RNP-220MC	J	22 $\pm$ 20%	162 $\pm$ 20%	0.79	0.60	1.42
CDRH58D18RNP-330MC	K	33 $\pm$ 20%	224 $\pm$ 20%	0.63	0.47	1.17
CDRH58D18RNP-470MC	L	47 $\pm$ 20%	323 $\pm$ 20%	0.55	0.40	0.95
CDRH58D18RNP-680MC	M	68 $\pm$ 20%	495 $\pm$ 20%	0.45	0.33	0.76
CDRH58D18RNP-101MC	N	100 $\pm$ 20%	729 $\pm$ 20%	0.37	0.27	0.66
CDRH58D18RNP-151MC	P	150 $\pm$ 20%	1065 $\pm$ 20%	0.30	0.23	0.51
CDRH58D18RNP-221MC	Q	220 $\pm$ 20%	1675 $\pm$ 20%	0.25	0.20	0.40
CDRH58D18RNP-331MC	R	330 $\pm$ 20%	2660 $\pm$ 20%	0.21	0.16	0.32

※1. Measuring condition: at 100kHz.

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

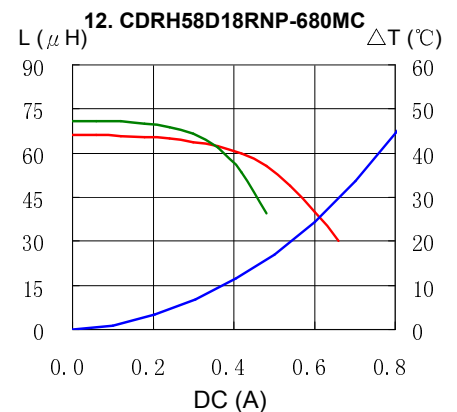
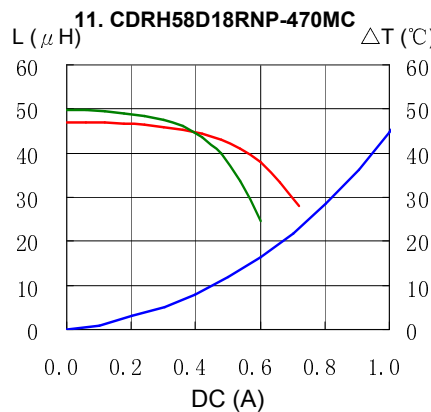
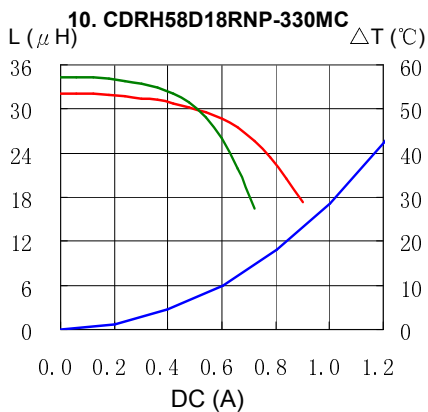
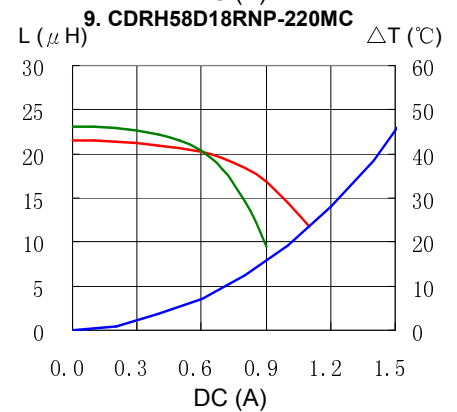
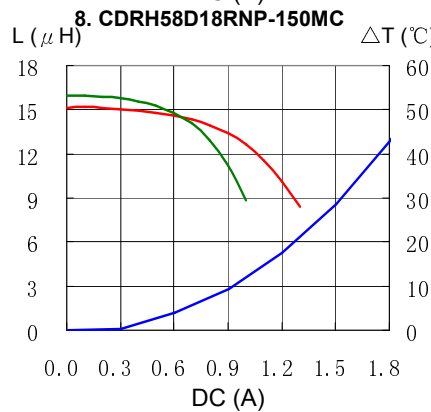
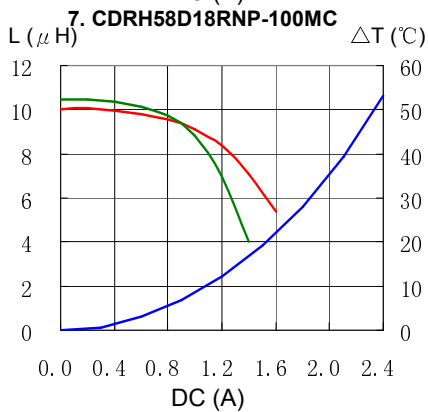
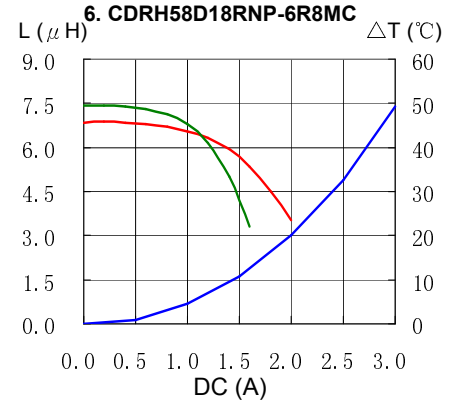
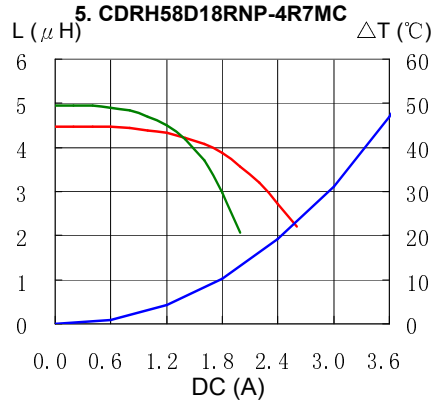
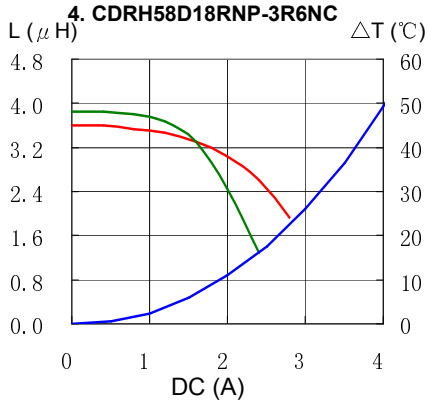
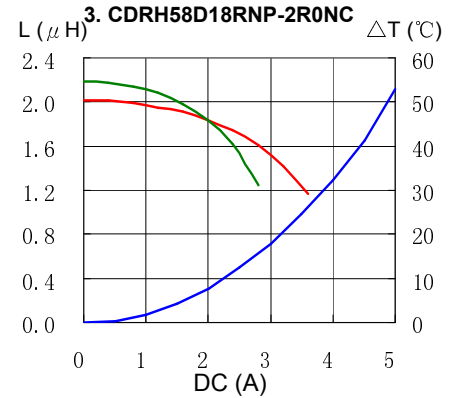
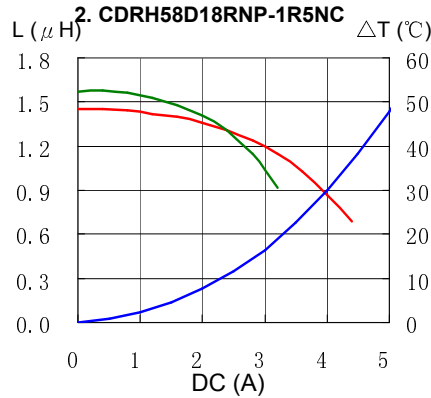
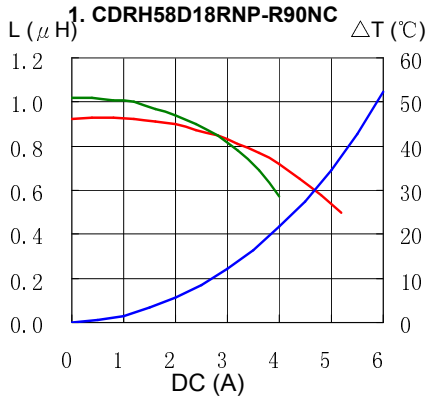
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

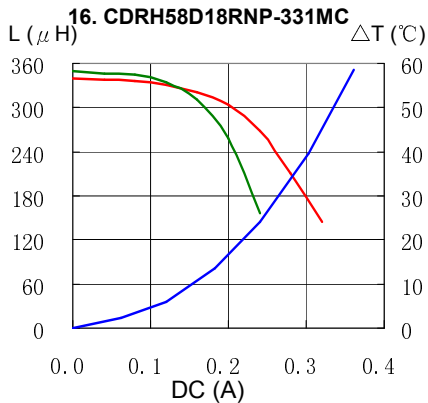
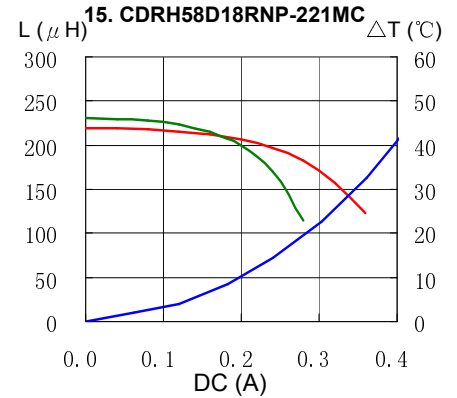
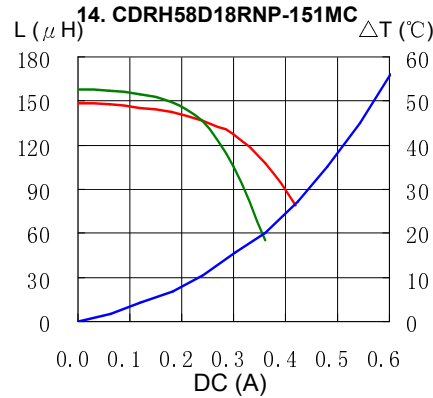
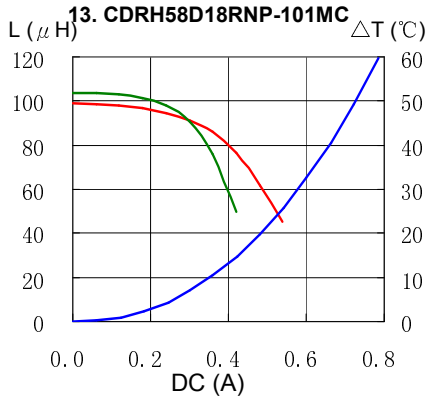


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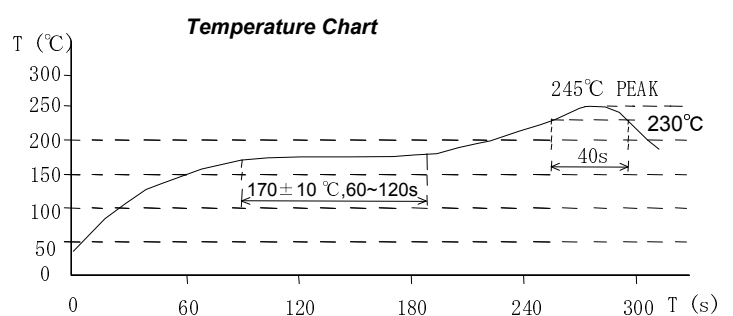
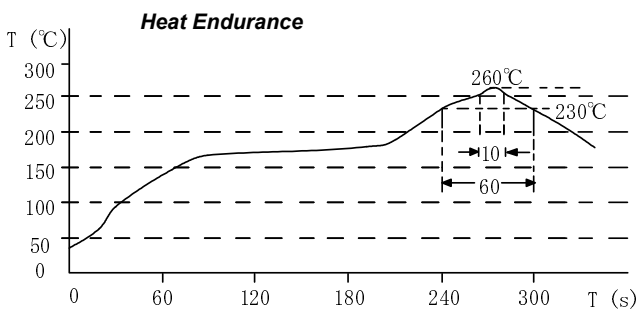


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



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