

SMD Power Inductor CDRH50D18R/LD



Halogen Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.2 × 5.2 × 2.0mm Max.
- Product weight: 0.16g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

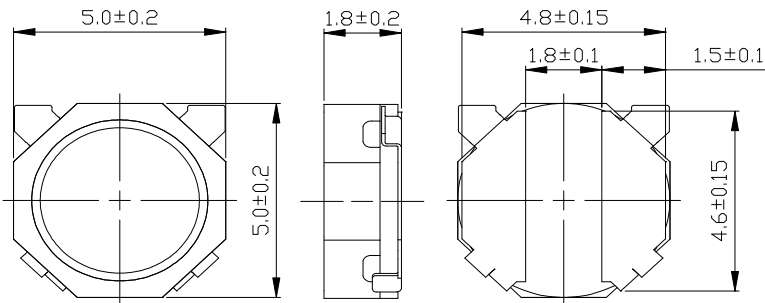
Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 3000pcs per reel

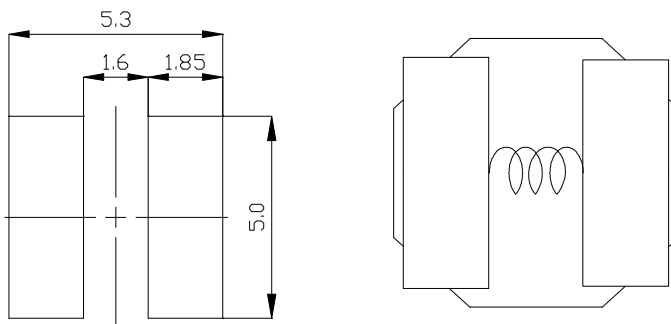
Applications

- Ideally used in digital single-lens reflex camera etc.

Dimension - [mm]



Land pattern and Schematics - [mm]



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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)	
CDRH50D18RLDNP-1R1NC	A	1.1 \pm 30%	17 \pm 25%	2.10	1.72	4.40
CDRH50D18RLDNP-1R6NC	B	1.6 \pm 30%	20 \pm 25%	1.75	1.46	3.95
CDRH50D18RLDNP-2R2NC	C	2.2 \pm 30%	24 \pm 25%	1.50	1.24	3.45
CDRH50D18RLDNP-3R6NC	D	3.6 \pm 30%	31 \pm 25%	1.17	0.98	3.15
CDRH50D18RLDNP-4R7MC	E	4.7 \pm 20%	34 \pm 25%	1.00	0.83	2.98
CDRH50D18RLDNP-6R8MC	F	6.8 \pm 20%	52 \pm 25%	0.85	0.70	2.22
CDRH50D18RLDNP-100MC	G	10 \pm 20%	79 \pm 25%	0.72	0.58	1.80
CDRH50D18RLDNP-150MC	H	15 \pm 20%	120 \pm 20%	0.58	0.47	1.40
CDRH50D18RLDNP-220MC	J	22 \pm 20%	178 \pm 20%	0.48	0.40	1.17
CDRH50D18RLDNP-330MC	K	33 \pm 20%	255 \pm 20%	0.38	0.30	0.97
CDRH50D18RLDNP-470MC	L	47 \pm 20%	355 \pm 20%	0.32	0.26	0.77
CDRH50D18RLDNP-680MC	M	68 \pm 20%	600 \pm 20%	0.28	0.23	0.54
CDRH50D18RLDNP-101MC	N	100 \pm 20%	760 \pm 20%	0.22	0.20	0.50
CDRH50D18RLDNP-151MC	P	150 \pm 20%	1420 \pm 20%	0.18	0.15	0.34

※1. Measuring condition: at 100kHz.

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

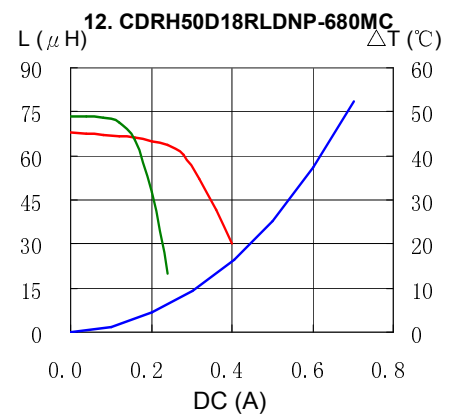
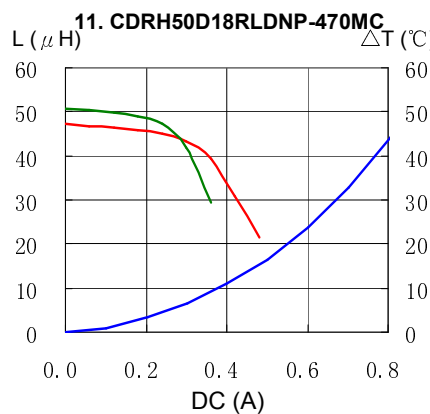
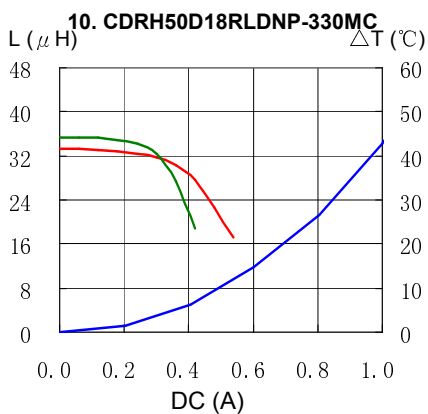
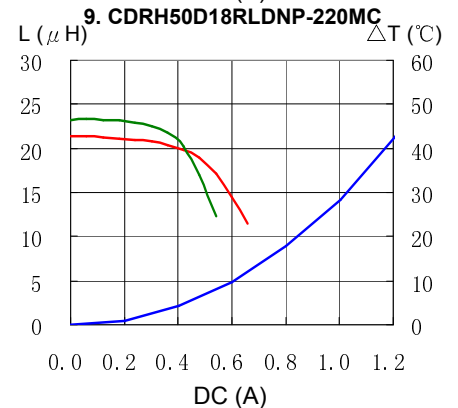
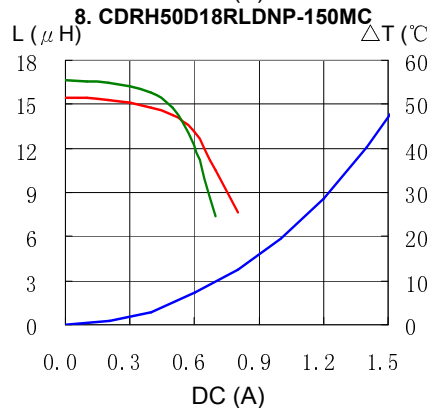
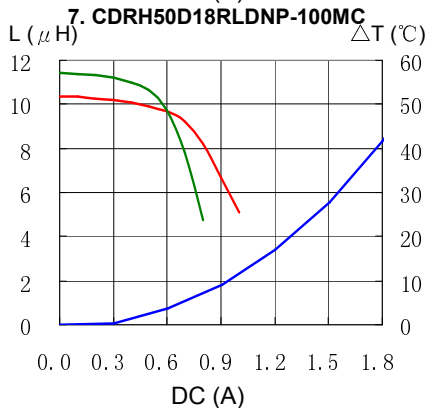
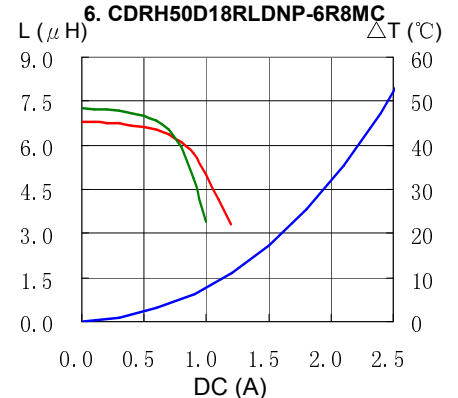
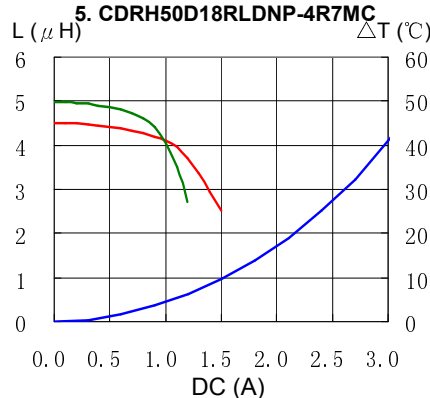
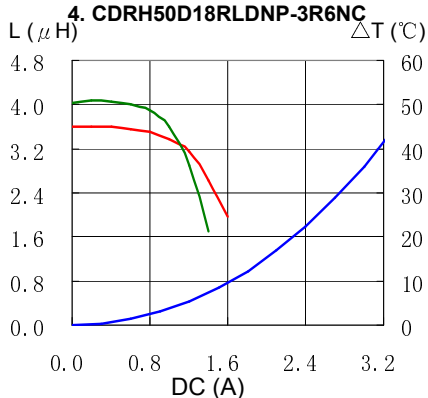
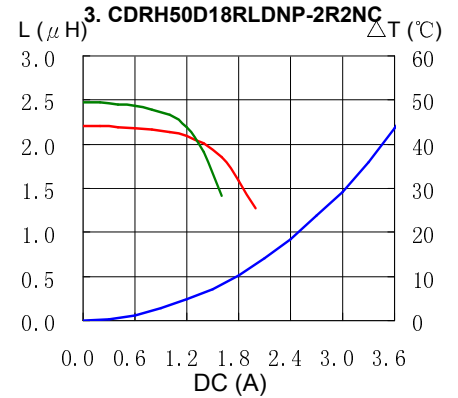
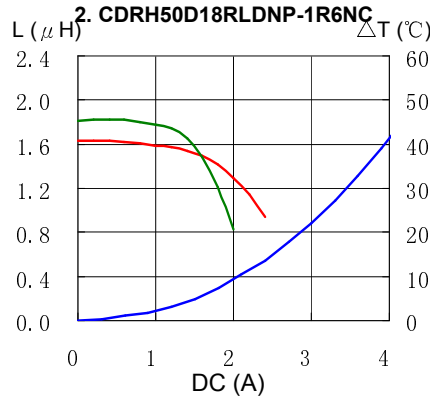
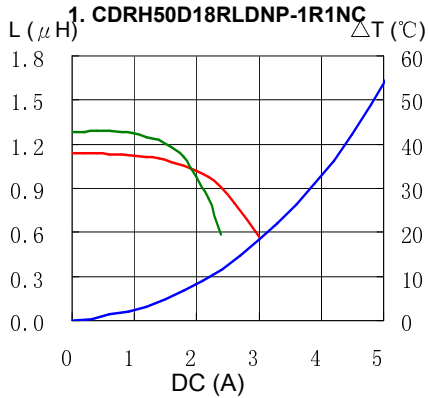
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

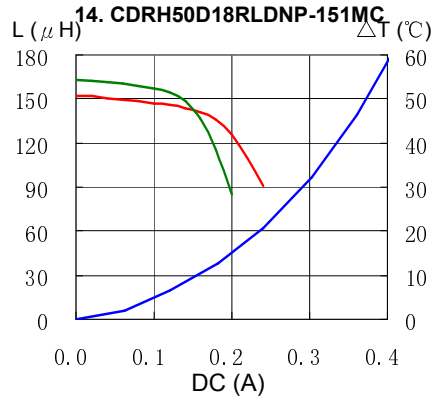
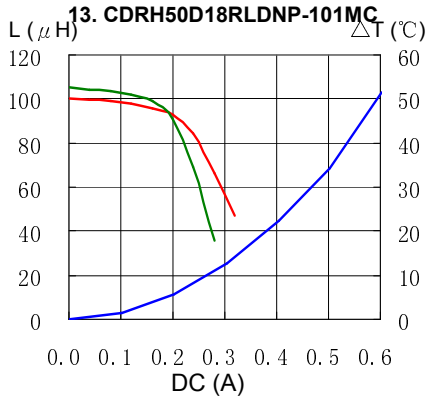


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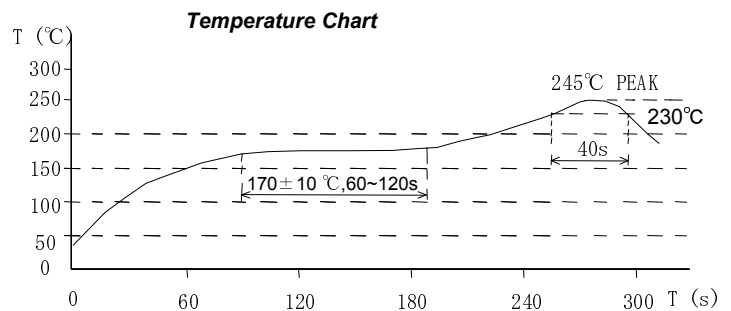
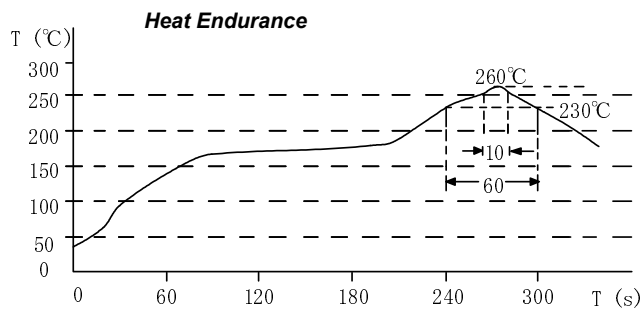


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



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