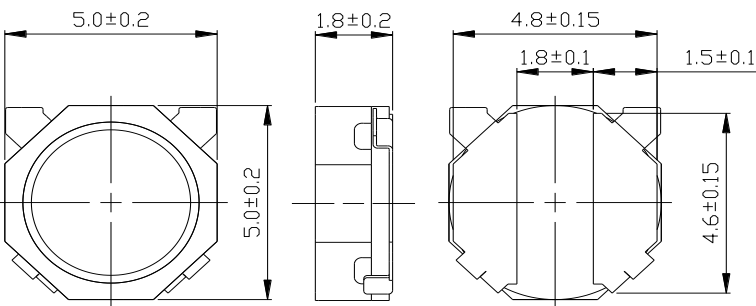


SMD Power Inductor

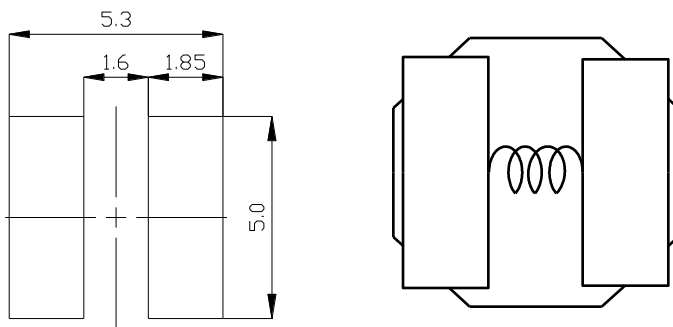
CDRH50D18R/LD



Dimension - [mm]



Land pattern and Schematics - [mm]



Description

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

Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- 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.

SMD Power Inductor

CDRH50D18R/LD



Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (mΩ) [Within] (at 20℃)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20℃)	(at 105℃)	
CDRH50D18RLDNP-1R1NC	A	1.1±30%	17±25%	2.10	1.72	4.40
CDRH50D18RLDNP-1R6NC	B	1.6±30%	20±25%	1.75	1.46	3.95
CDRH50D18RLDNP-2R2NC	C	2.2±30%	24±25%	1.50	1.24	3.45
CDRH50D18RLDNP-3R6NC	D	3.6±30%	31±25%	1.17	0.98	3.15
CDRH50D18RLDNP-4R7MC	E	4.7±20%	34±25%	1.00	0.83	2.98
CDRH50D18RLDNP-6R8MC	F	6.8±20%	52±25%	0.85	0.70	2.22
CDRH50D18RLDNP-100MC	G	10±20%	79±25%	0.72	0.58	1.80
CDRH50D18RLDNP-150MC	H	15±20%	120±20%	0.58	0.47	1.40
CDRH50D18RLDNP-220MC	J	22±20%	178±20%	0.48	0.40	1.17
CDRH50D18RLDNP-330MC	K	33±20%	255±20%	0.38	0.30	0.97
CDRH50D18RLDNP-470MC	L	47±20%	355±20%	0.32	0.26	0.77
CDRH50D18RLDNP-680MC	M	68±20%	600±20%	0.28	0.23	0.54
CDRH50D18RLDNP-101MC	N	100±20%	760±20%	0.22	0.20	0.50
CDRH50D18RLDNP-151MC	P	150±20%	1420±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 it's nominal value.

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

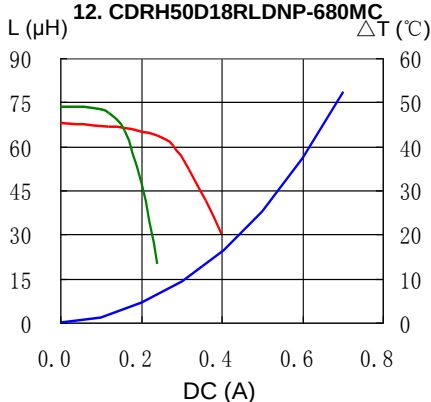
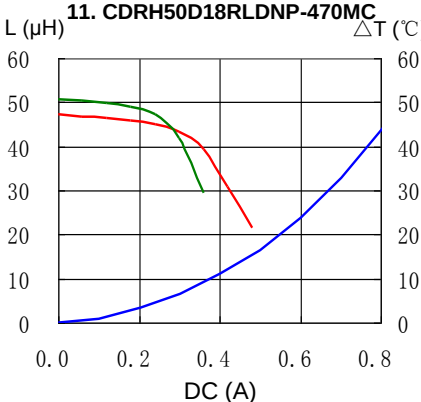
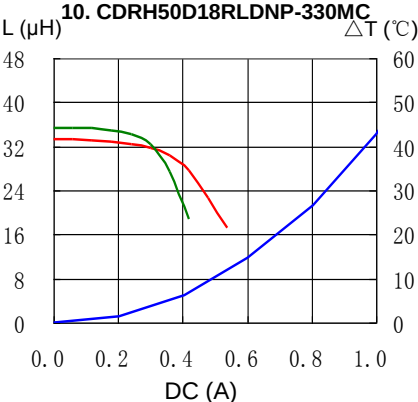
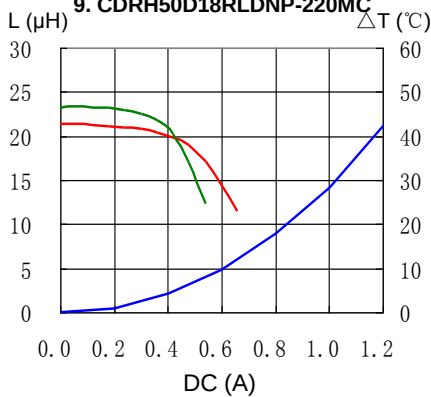
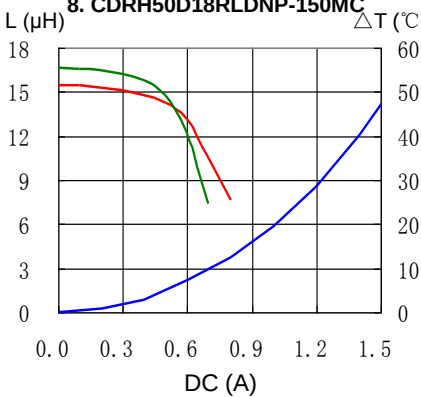
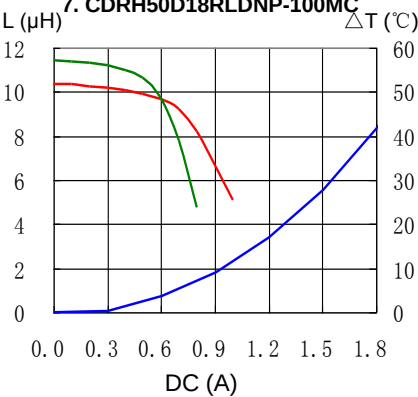
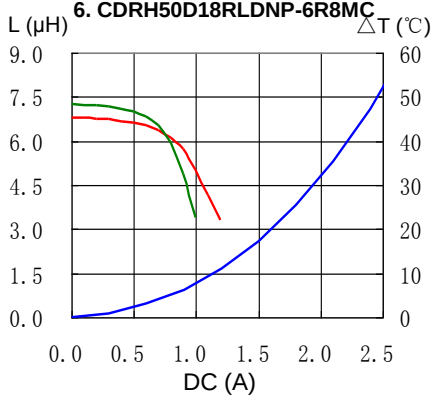
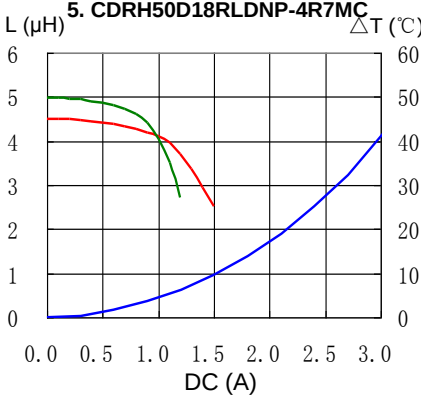
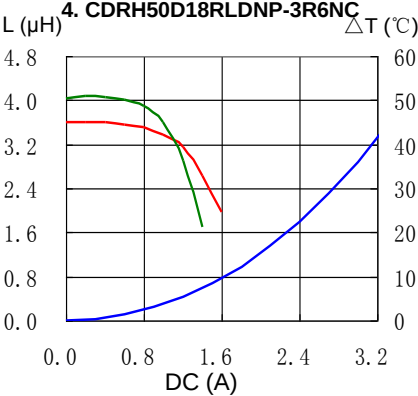
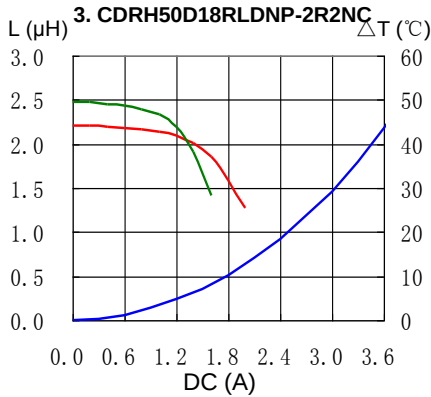
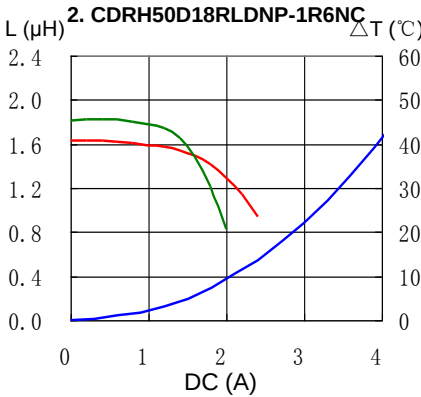
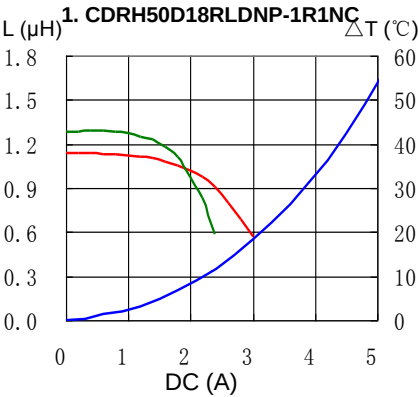
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

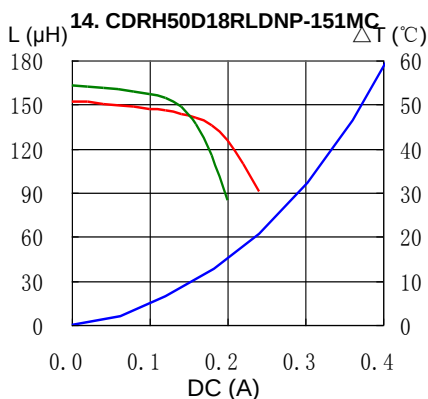
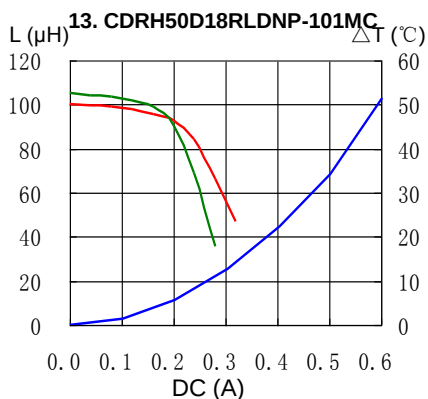


SMD Power Inductor CDRH50D18R/LD

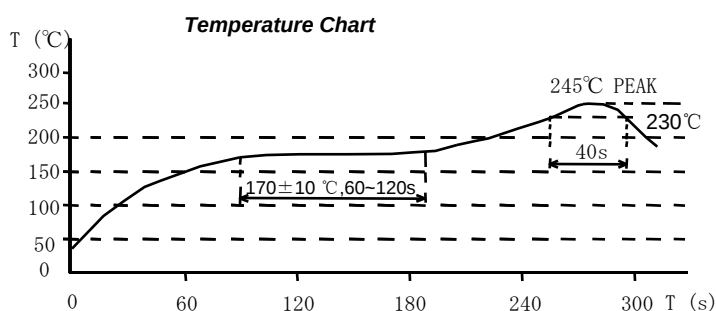
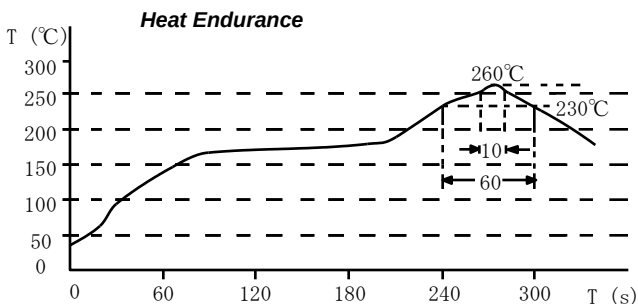


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



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