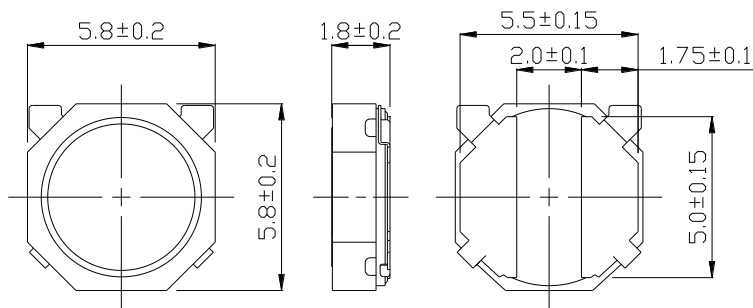


SMD Power Inductor

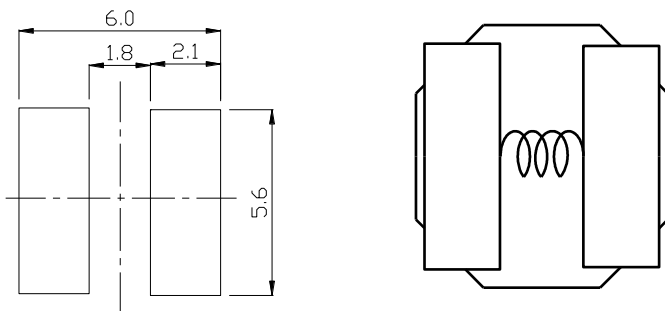
CDRH58D18R



Dimension - [mm]



Land pattern and Schematics - [mm]



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.

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.

SMD Power Inductor

CDRH58D18R



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

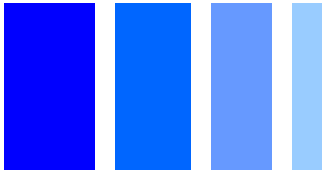
※1. Measuring condition: at 100kHz.

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

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

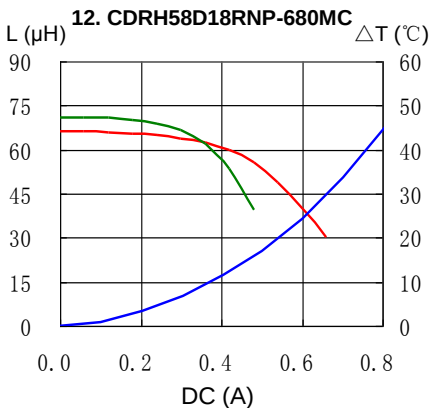
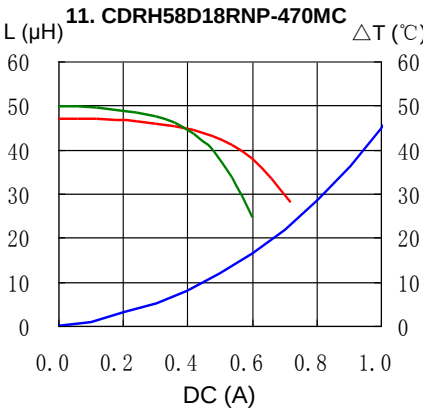
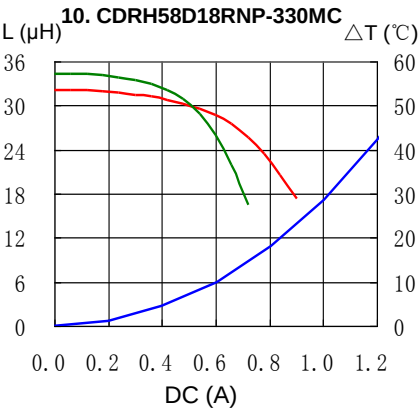
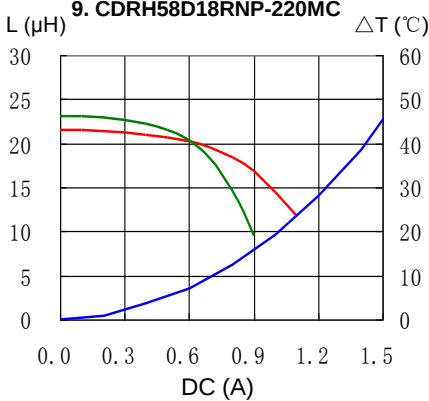
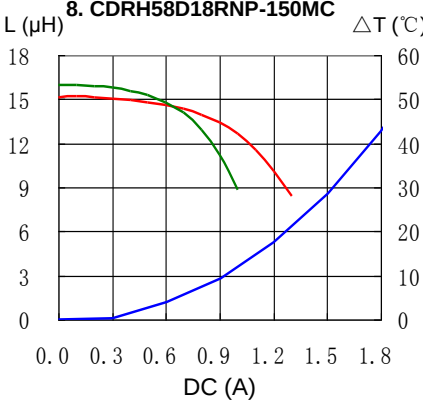
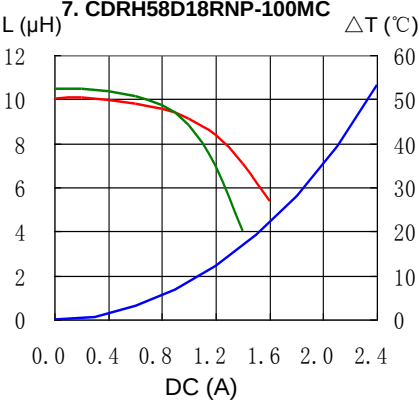
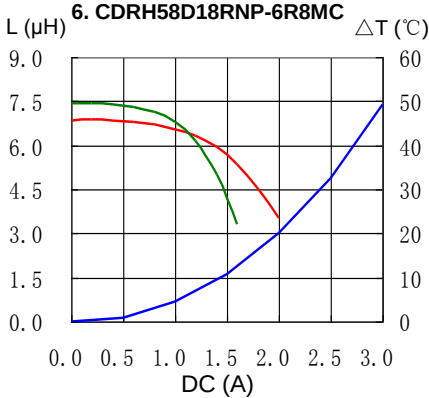
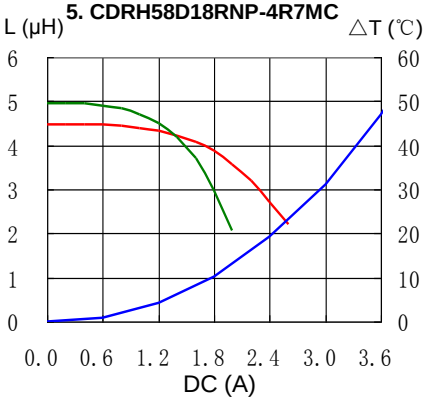
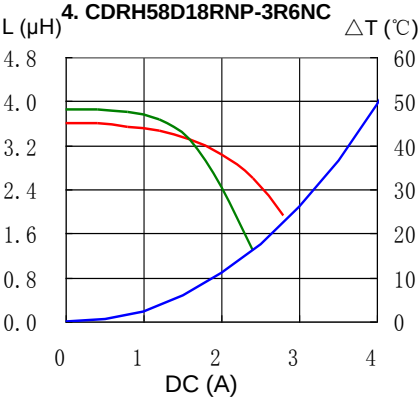
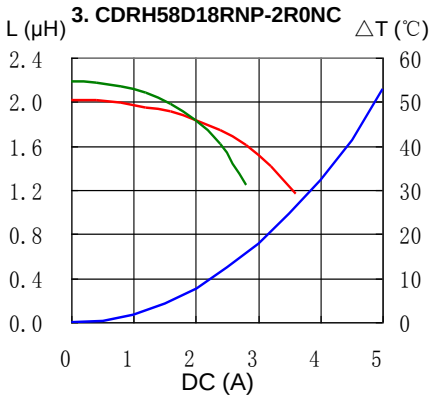
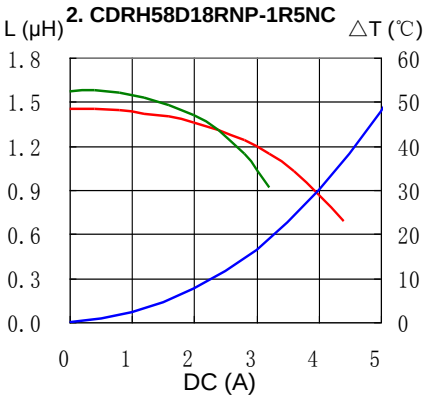
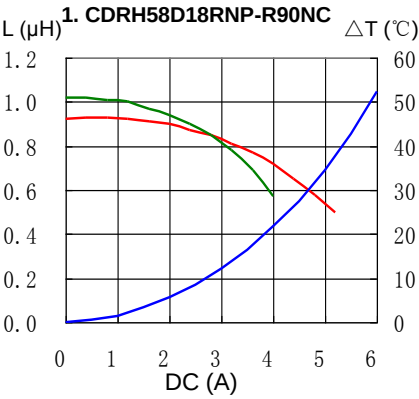
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CDRH58D18R



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

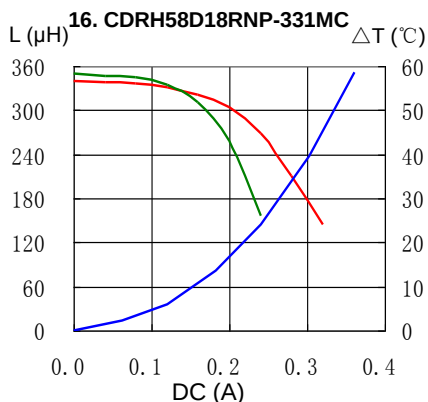
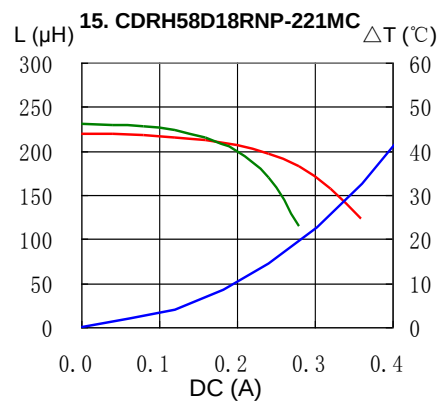
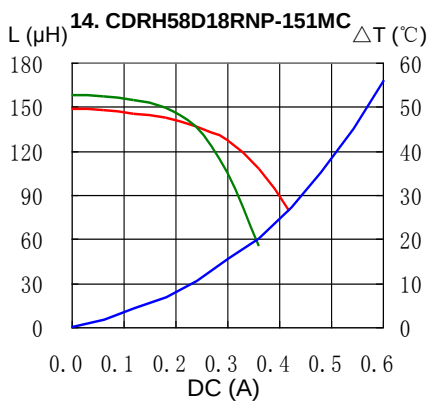
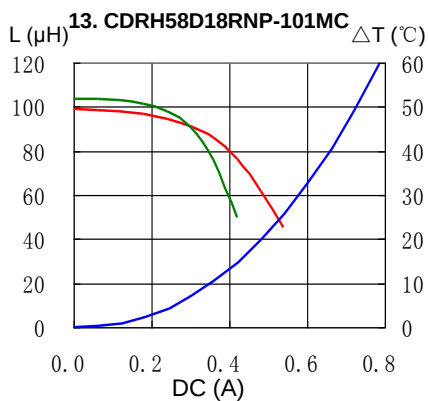


SMD Power Inductor CDRH58D18R



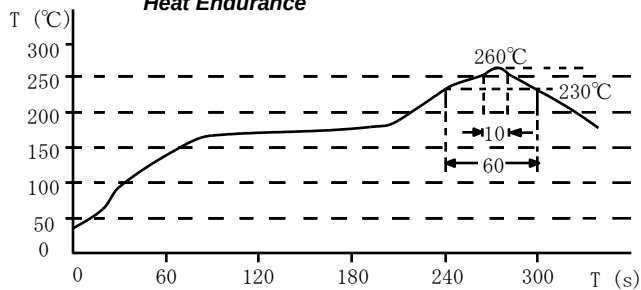
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

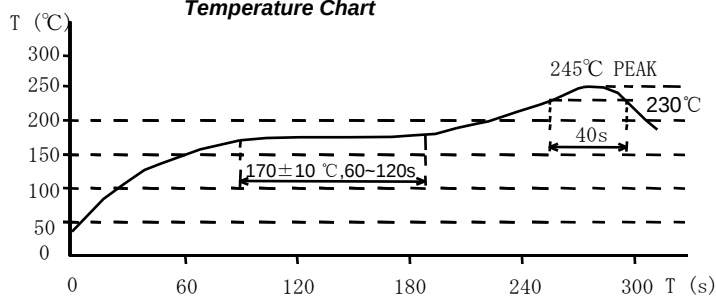


Solder Reflow Condition

Heat Endurance



Temperature Chart



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