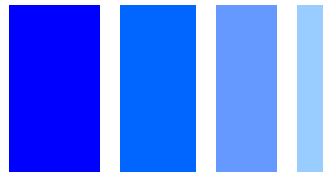


SMD Power Inductor CDRH38D16R/LD



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.2 × 3.95 × 1.8 mm Max.
- Product weight: 85mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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.

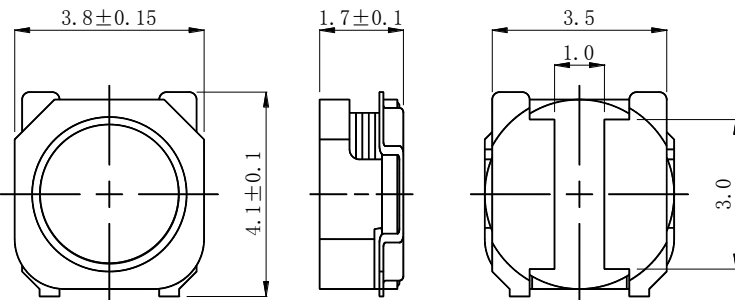
Packaging

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

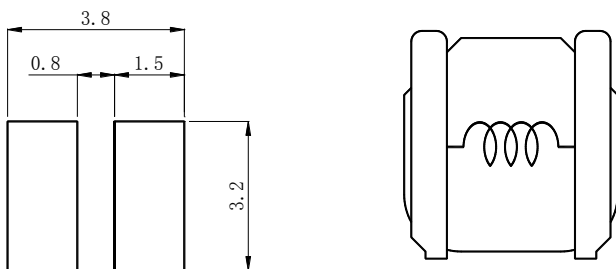
Applications

- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, HDD, etc as DC-DC converter inductors .

Dimension - [mm]



Land pattern and Schematics - [mm]



SMD Power Inductor

CDRH38D16R/LD



Electrical Characteristics

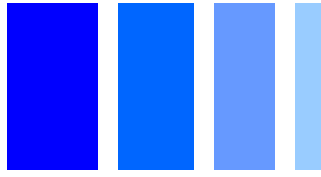
Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. ($\text{m}\Omega$) [Within] (at20°C)	Saturation current (A) ※2		Temperature rise Current (A) ※3
				(at20°C)	(at100°C)	
CDRH38D16RLDNP-R90NC	A	$0.90 \pm 30\%$	$18 \pm 25\%$	1.54	1.31	3.80
CDRH38D16RLDNP-1R6NC	B	$1.6 \pm 30\%$	$25 \pm 25\%$	1.14	0.99	3.15
CDRH38D16RLDNP-2R2NC	C	$2.2 \pm 30\%$	$30 \pm 25\%$	1.01	0.88	3.00
CDRH38D16RLDNP-3R3MC	D	$3.3 \pm 20\%$	$37 \pm 25\%$	0.81	0.70	2.60
CDRH38D16RLDNP-4R7MC	E	$4.7 \pm 20\%$	$55 \pm 25\%$	0.69	0.59	2.00
CDRH38D16RLDNP-6R8MC	F	$6.8 \pm 20\%$	$75 \pm 25\%$	0.56	0.49	1.75
CDRH38D16RLDNP-100MC	G	$10 \pm 20\%$	$104 \pm 20\%$	0.47	0.40	1.45
CDRH38D16RLDNP-150MC	H	$15 \pm 20\%$	$163 \pm 20\%$	0.36	0.32	1.13
CDRH38D16RLDNP-220MC	J	$22 \pm 20\%$	$248 \pm 20\%$	0.32	0.28	0.90
CDRH38D16RLDNP-330MC	K	$33 \pm 20\%$	$351 \pm 20\%$	0.26	0.23	0.75
CDRH38D16RLDNP-470MC	L	$47 \pm 20\%$	$490 \pm 20\%$	0.22	0.19	0.65
CDRH38D16RLDNP-680MC	M	$68 \pm 20\%$	$867 \pm 20\%$	0.18	0.15	0.45
CDRH38D16RLDNP-101MC	N	$100 \pm 20\%$	$1335 \pm 20\%$	0.15	0.12	0.35

※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.

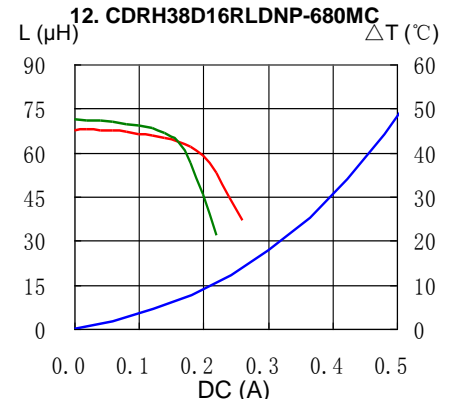
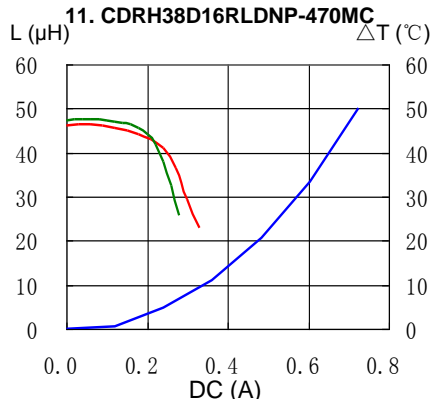
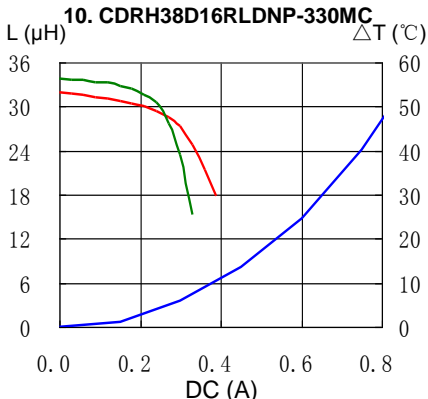
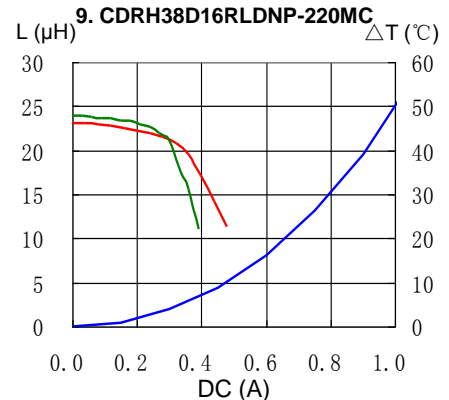
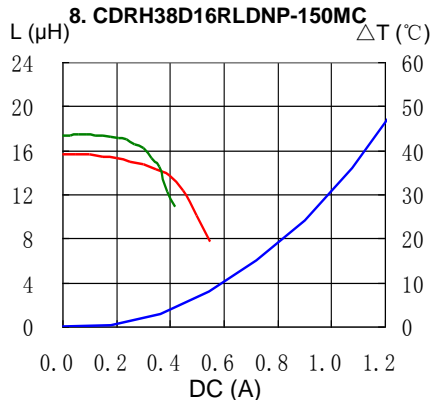
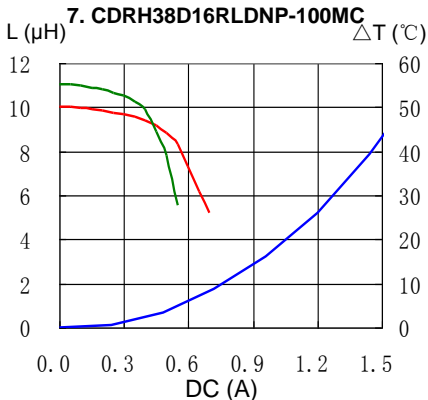
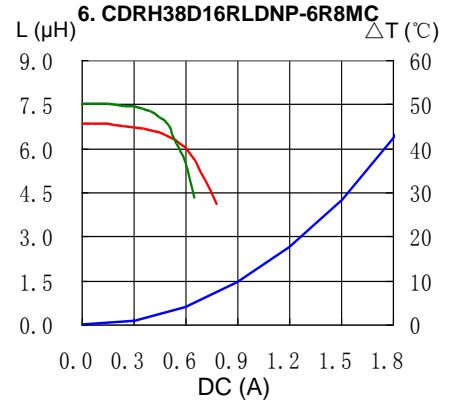
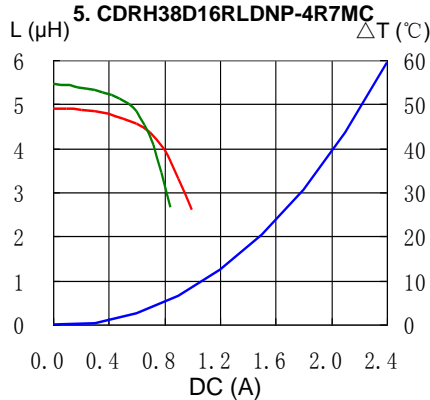
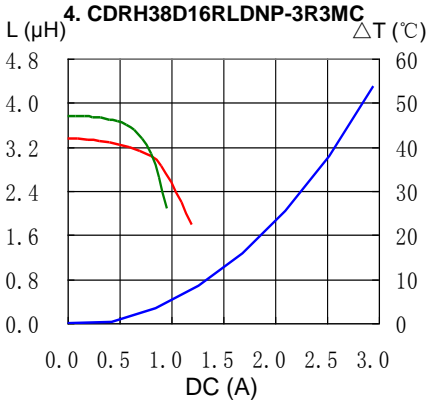
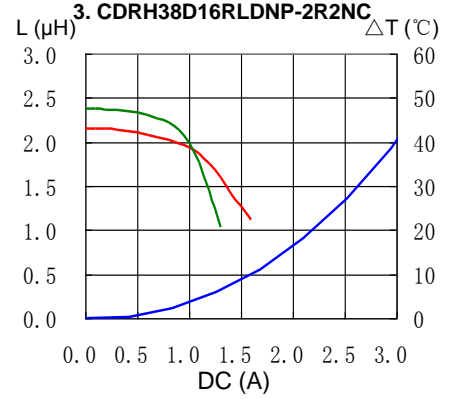
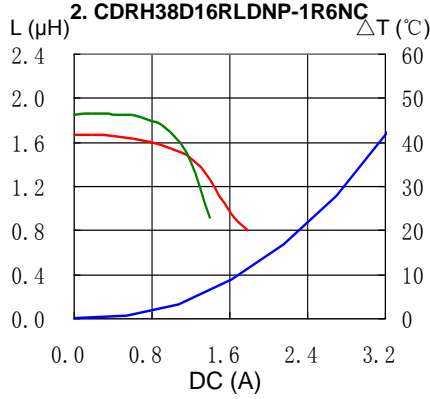
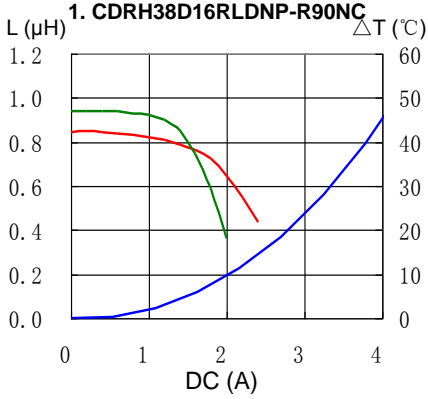
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

SMD Power Inductor CDRH38D16R/LD

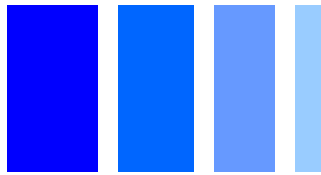


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

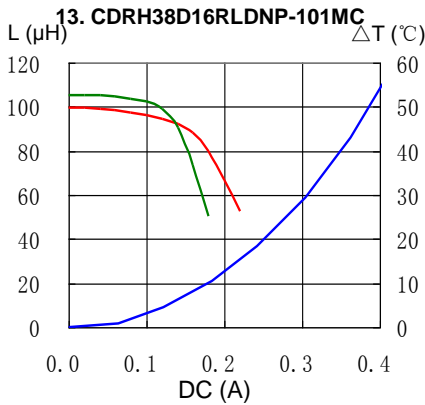


SMD Power Inductor CDRH38D16R/LD



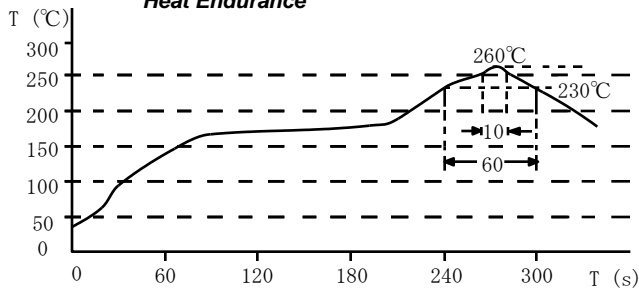
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

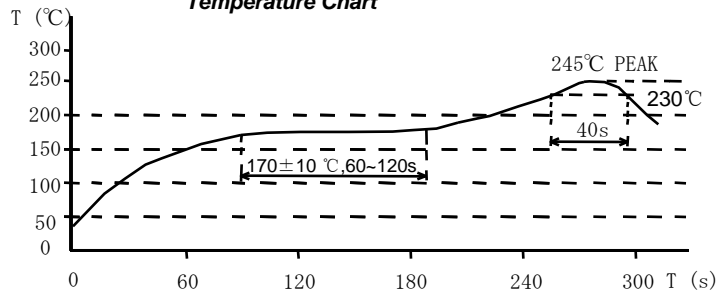


Solder Reflow Condition

Heat Endurance



Temperature Chart



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