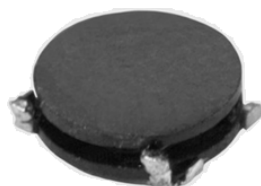


SMD Power Inductor CDH38D11/S



Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 4.0 × 4.0 × 1.2mm Max.
- Product weight: 58mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

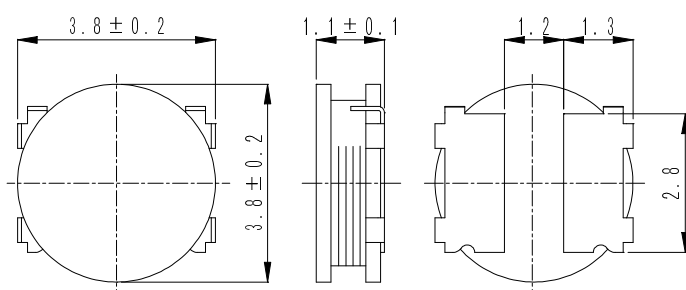
Packaging

- Carrier tape and reel packaging.
- 7.0" diameter reel
- 1500pcs per reel

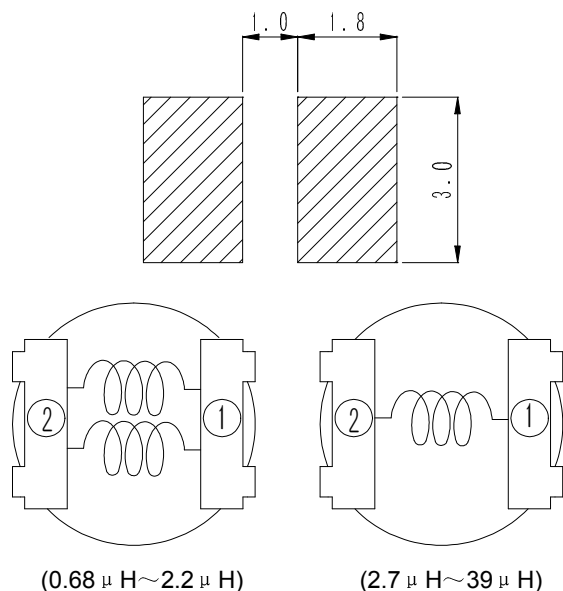
Applications

- 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

CDH38D11/S



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDH38D11SHF-R68MC	R68	$0.68 \pm 20\%$	36.3m(29m)	3.50	3.30
CDH38D11SHF-1R0MC	1R0	$1.0 \pm 20\%$	48.8m(39m)	2.80	2.85
CDH38D11SHF-1R2MC	1R2	$1.2 \pm 20\%$	60.0m(48m)	2.60	2.60
CDH38D11SHF-1R8MC	1R8	$1.8 \pm 20\%$	78.8m(63m)	2.20	2.25
CDH38D11SHF-2R2MC	2R2	$2.2 \pm 20\%$	102.5m(82m)	1.90	1.84
CDH38D11SHF-2R7MC	2R7	$2.7 \pm 20\%$	121.2m(101m)	1.70	1.56
CDH38D11SHF-3R3MC	3R3	$3.3 \pm 20\%$	138.0m(115m)	1.56	1.50
CDH38D11SHF-4R2MC	4R2	$4.2 \pm 20\%$	168.0m(140m)	1.35	1.40
CDH38D11SHF-4R7MC	4R7	$4.7 \pm 20\%$	189.6m(158m)	1.30	1.20
CDH38D11SHF-5R8MC	5R8	$5.8 \pm 20\%$	240m(200m)	1.12	1.12
CDH38D11SHF-6R8MC	6R8	$6.8 \pm 20\%$	264m(220m)	1.05	1.08
CDH38D11SHF-8R2MC	8R2	$8.2 \pm 20\%$	348m(290m)	0.96	0.92
CDH38D11SHF-100MC	100	$10 \pm 20\%$	0.44(0.37)	0.84	0.82
CDH38D11SHF-120MC	120	$12 \pm 20\%$	0.49(0.41)	0.80	0.80
CDH38D11SHF-150MC	150	$15 \pm 20\%$	0.67(0.56)	0.68	0.67
CDH38D11SHF-180MC	180	$18 \pm 20\%$	0.76(0.63)	0.64	0.62
CDH38D11SHF-220MC	220	$22 \pm 20\%$	0.89(0.74)	0.58	0.59
CDH38D11SHF-270MC	270	$27 \pm 20\%$	1.02(0.85)	0.51	0.52
CDH38D11SHF-330MC	330	$33 \pm 20\%$	1.32(1.1)	0.44	0.50
CDH38D11SHF-390MC	390	$39 \pm 20\%$	1.56(1.3)	0.40	0.44

※1. Inductance measuring condition: at 100kHz.

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

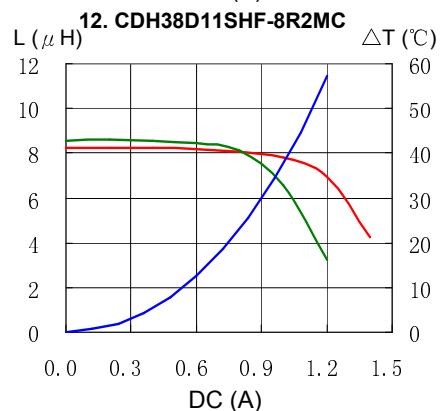
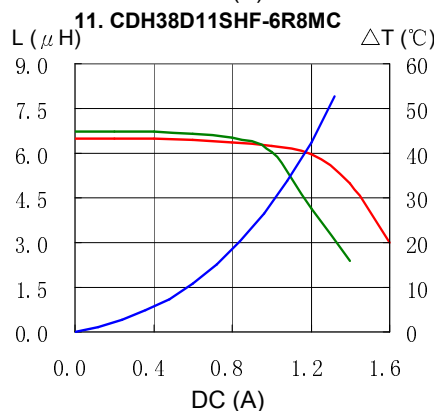
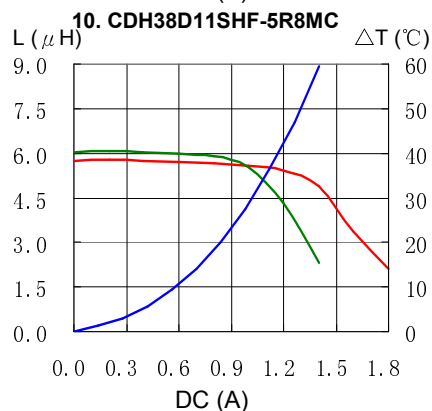
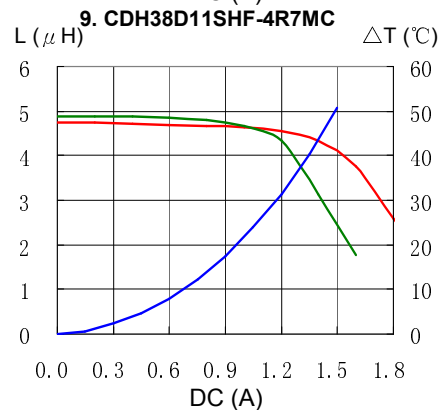
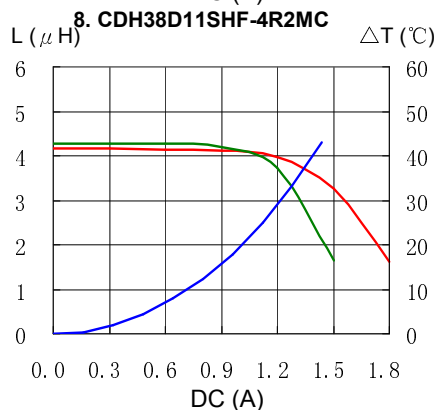
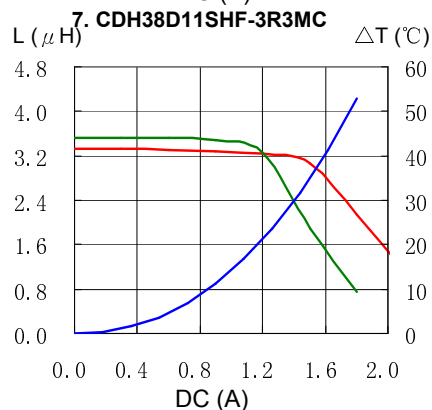
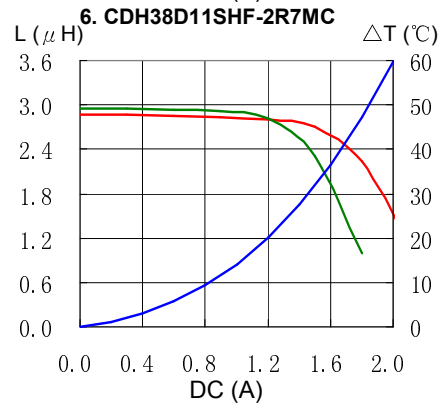
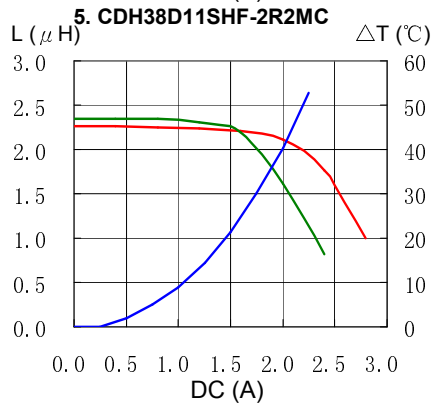
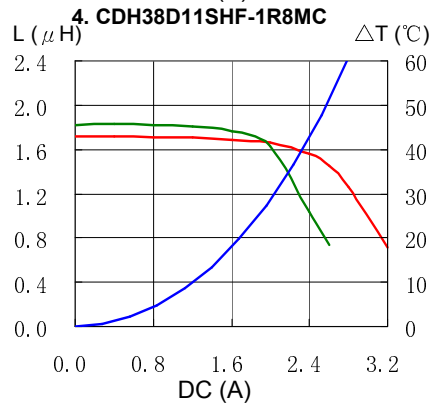
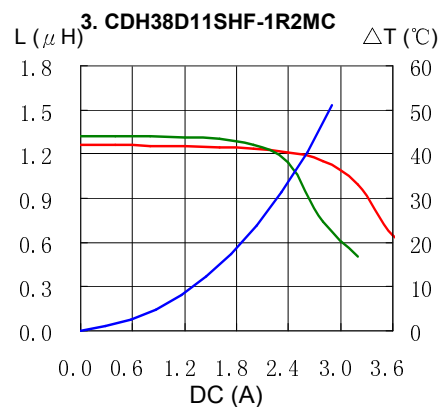
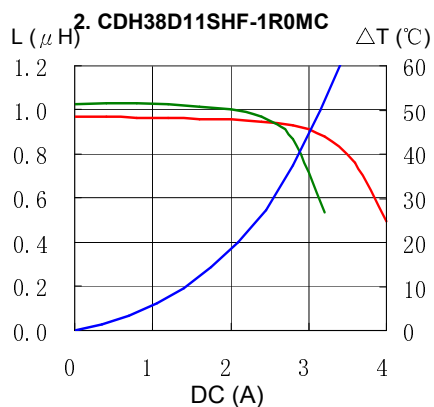
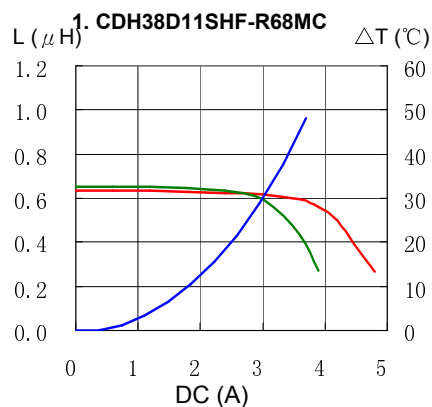
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

SMD Power Inductor CDH38D11/S



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

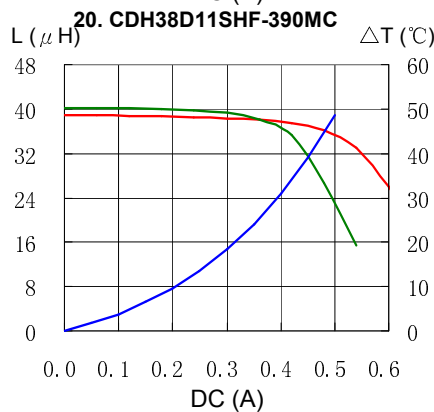
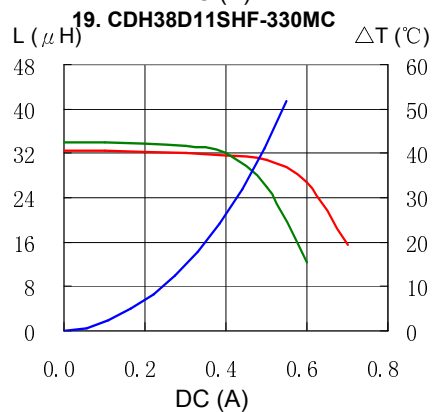
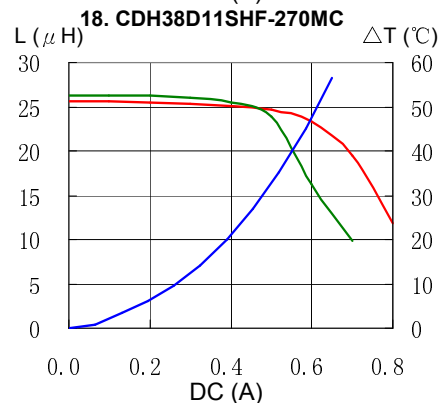
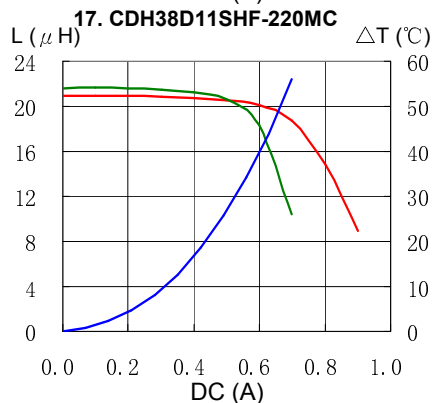
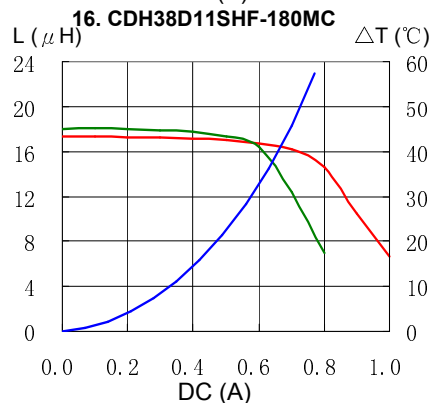
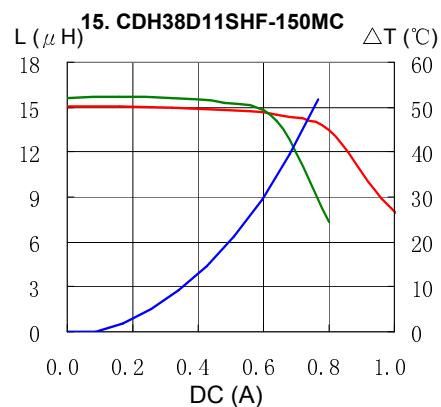
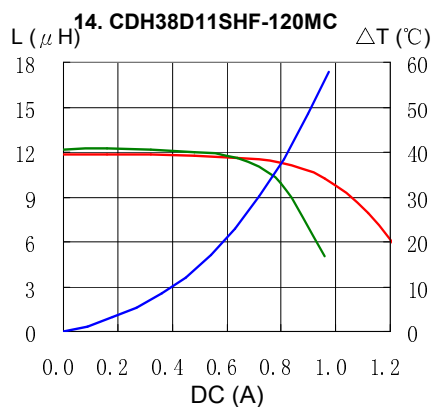
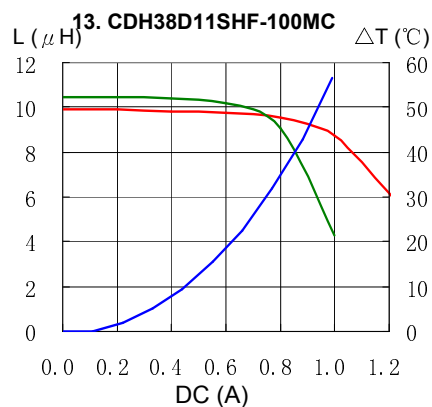


SMD Power Inductor CDH38D11/S



Saturation Current & Temperature Rise Graph

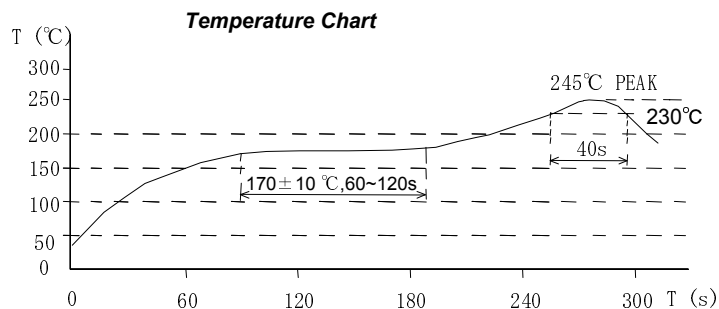
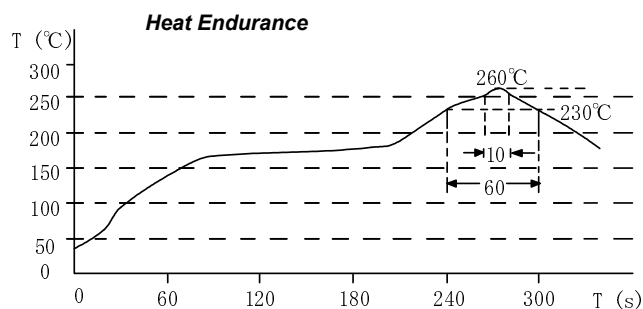
— L (20°C) — L (105°C) — ΔT



SMD Power Inductor CDH38D11/S



Solder Reflow Condition



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