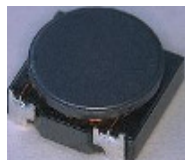


SMD Power Inductor

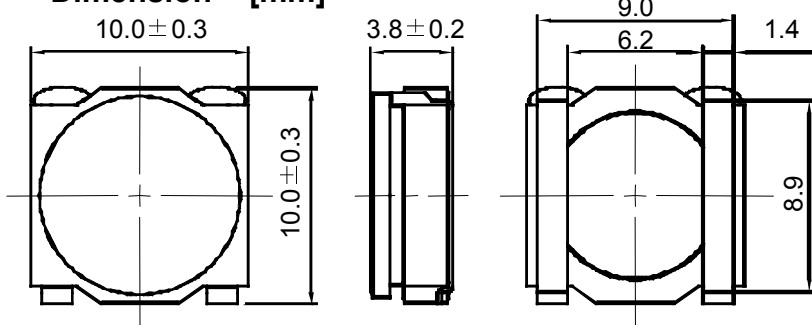
CDRH10D38D/HP



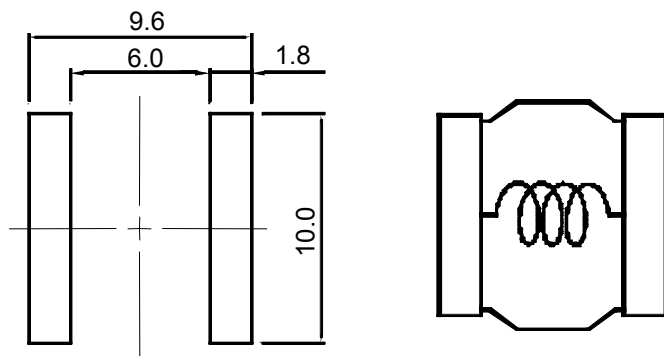
Halogen
Free



Dimension - [mm]



Land pattern and Schematics - [mm]



Description

- Ferrite drum core construction
- Magnetically shielded
- L × W × H: 10.3 × 10.3 × 4.0 mm Max.
- Product weight: 1.35g(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

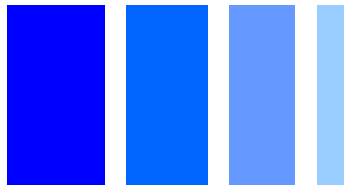
- Carrier tape and reel packaging

Applications

- Ideally used in LCD TV and Note PC.

SMD Power Inductor

CDRH10D38D/HP



Electrical Characteristics

PART NAME	STAMP	INDUCTANCE [WITHIN] (100kHz)	D.C.R. (mΩ) (at 20°C)	SATURATION CURRENT (A)※1 (at 20°C)	TEMPERATURE RISE CURRENT(A) ※2
CDRH10D38DHPNP-R82PC	R82	$0.82 \pm 25\%$	$4.0 \pm 25\%$	18.30	12.00
CDRH10D38DHPNP-1R5PC	1R5	$1.5 \pm 25\%$	$6.5 \pm 25\%$	13.75	9.50
CDRH10D38DHPNP-2R2PC	2R2	$2.2 \pm 25\%$	$9.0 \pm 25\%$	11.20	8.40
CDRH10D38DHPNP-3R3PC	3R3	$3.3 \pm 25\%$	$13.5 \pm 25\%$	9.25	6.50
CDRH10D38DHPNP-4R7PC	4R7	$4.7 \pm 25\%$	$16.0 \pm 25\%$	7.65	5.80
CDRH10D38DHPNP-6R2MC	6R2	$6.2 \pm 20\%$	$20.5 \pm 25\%$	6.65	5.30
CDRH10D38DHPNP-100MC	100	$10 \pm 20\%$	$33.0 \pm 25\%$	5.20	4.00
CDRH10D38DHPNP-150MC	150	$15 \pm 20\%$	$52 \pm 25\%$	4.20	3.10
CDRH10D38DHPNP-220MC	220	$22 \pm 20\%$	$74 \pm 25\%$	3.55	2.55
CDRH10D38DHPNP-330MC	330	$33 \pm 20\%$	$116 \pm 20\%$	3.90	2.00
CDRH10D38DHPNP-470MC	470	$47 \pm 20\%$	$173 \pm 20\%$	2.40	1.60
CDRH10D38DHPNP-680MC	680	$68 \pm 20\%$	$225 \pm 20\%$	2.05	1.40
CDRH10D38DHPNP-101MC	101	$100 \pm 20\%$	$332 \pm 20\%$	1.60	1.15
CDRH10D38DHPNP-151MC	151	$150 \pm 20\%$	$445 \pm 20\%$	1.35	1.00
CDRH10D38DHPNP-221MC	221	$220 \pm 20\%$	$645 \pm 20\%$	1.10	0.85
CDRH10D38DHPNP-331MC	331	$330 \pm 20\%$	$995 \pm 20\%$	0.90	0.64

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

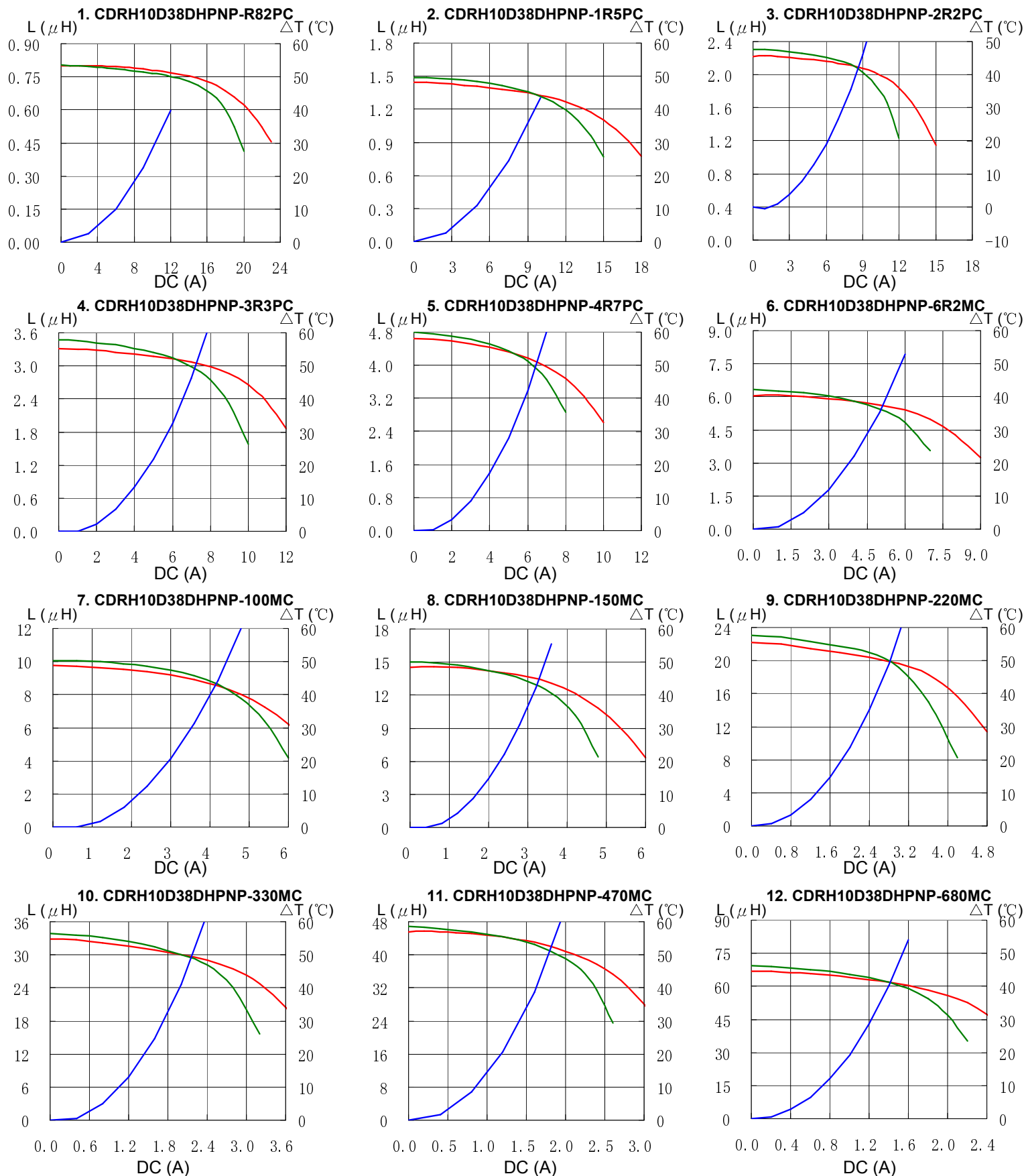
※2. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

SMD Power Inductor CDRH10D38D/HP



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

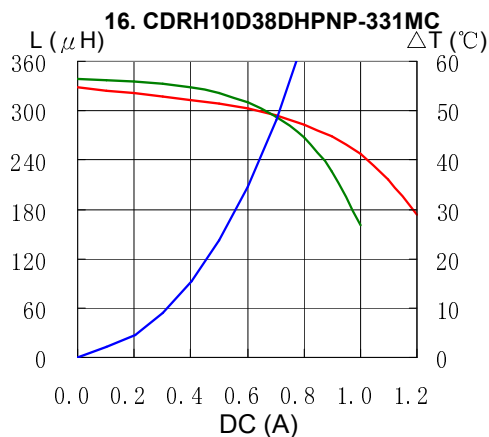
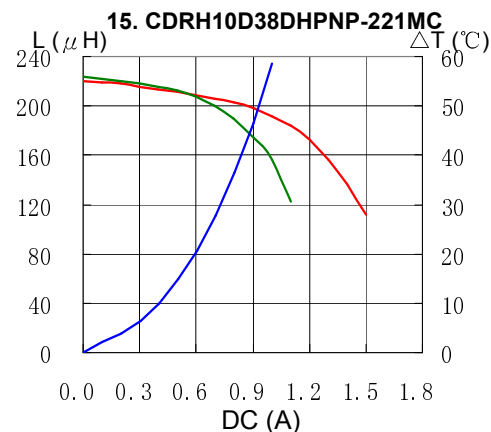
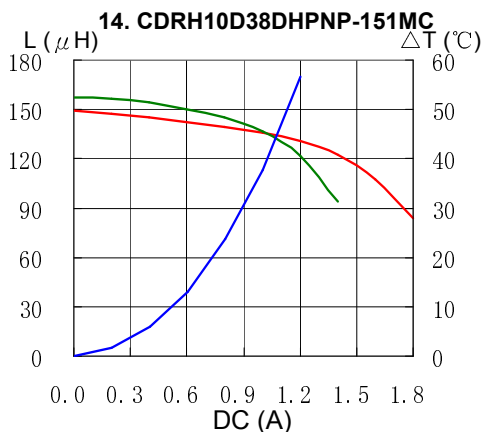
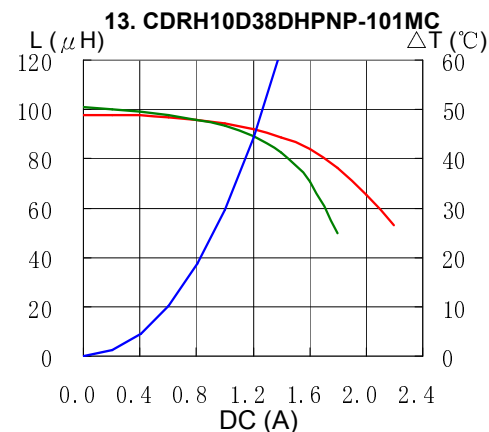


SMD Power Inductor CDRH10D38D/HP

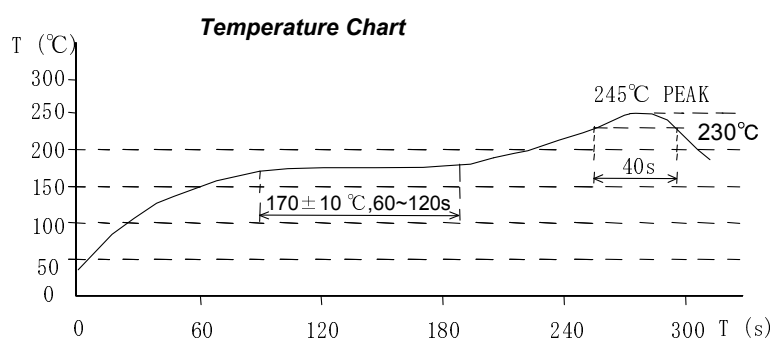
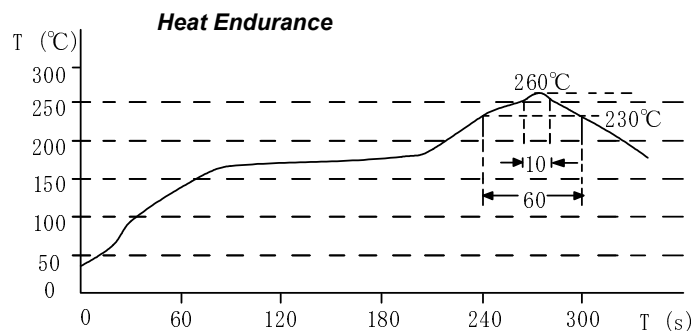


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



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