

SMD Power Inductor CDRH10D38D/HP



Halogen
Free



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.

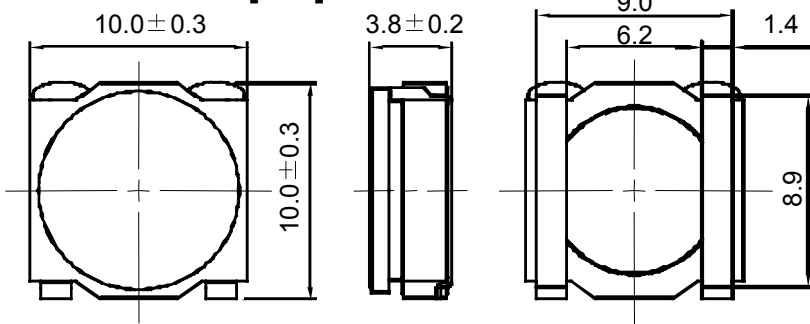
Packaging

- Carrier tape and reel packaging

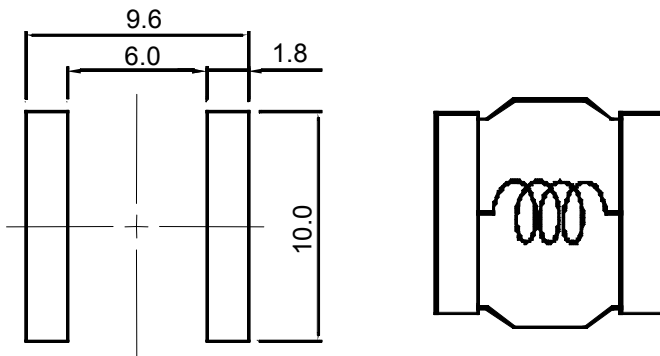
Applications

- Ideally used in LCD TV and Note PC.

Dimension - [mm]



Land pattern and Schematics - [mm]





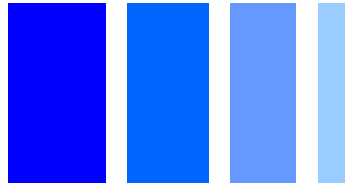
Electrical Characteristics

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±25%	4.0±25%	18.30	12.00
CDRH10D38DHPNP-1R5PC	1R5	1.5±25%	6.5±25%	13.75	9.50
CDRH10D38DHPNP-2R2PC	2R2	2.2±25%	9.0±25%	11.20	8.40
CDRH10D38DHPNP-3R3PC	3R3	3.3±25%	13.5±25%	9.25	6.50
CDRH10D38DHPNP-4R7PC	4R7	4.7±25%	16.0±25%	7.65	5.80
CDRH10D38DHPNP-6R2MC	6R2	6.2±20%	20.5±25%	6.65	5.30
CDRH10D38DHPNP-100MC	100	10±20%	33.0±25%	5.20	4.00
CDRH10D38DHPNP-150MC	150	15±20%	52±25%	4.20	3.10
CDRH10D38DHPNP-220MC	220	22±20%	74±25%	3.55	2.55
CDRH10D38DHPNP-330MC	330	33±20%	116±20%	3.90	2.00
CDRH10D38DHPNP-470MC	470	47±20%	173±20%	2.40	1.60
CDRH10D38DHPNP-680MC	680	68±20%	225±20%	2.05	1.40
CDRH10D38DHPNP-101MC	101	100±20%	332±20%	1.60	1.15
CDRH10D38DHPNP-151MC	151	150±20%	445±20%	1.35	1.00
CDRH10D38DHPNP-221MC	221	220±20%	645±20%	1.10	0.85
CDRH10D38DHPNP-331MC	331	330±20%	995±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.

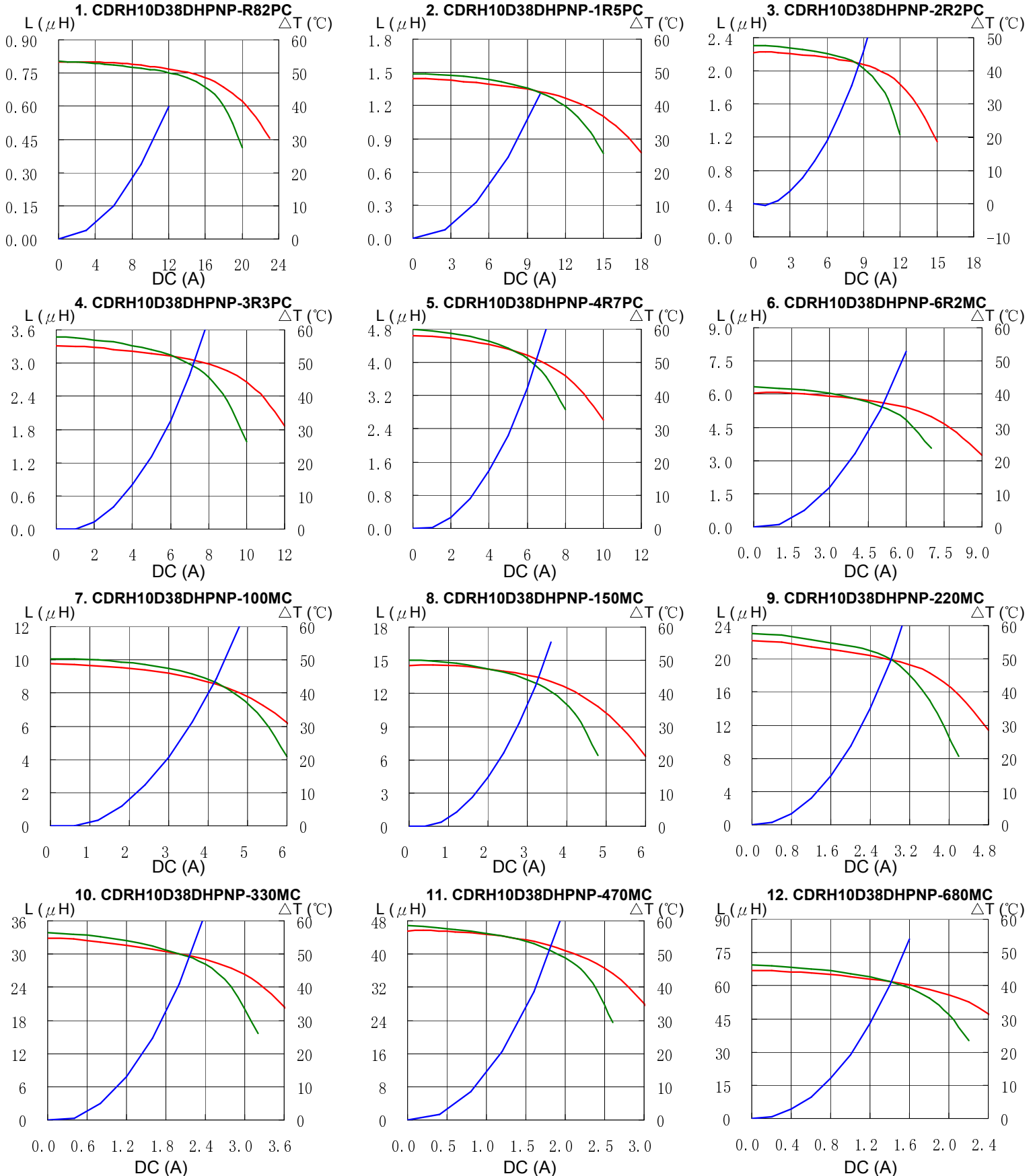
※2. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

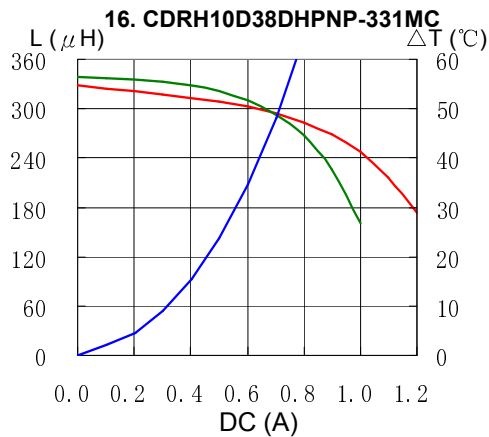
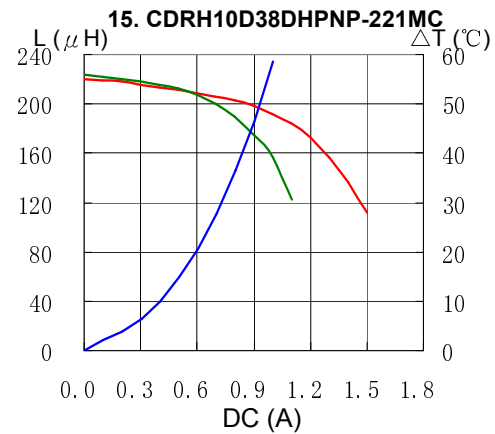
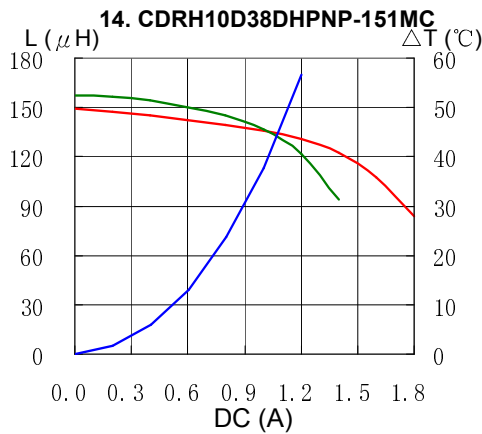
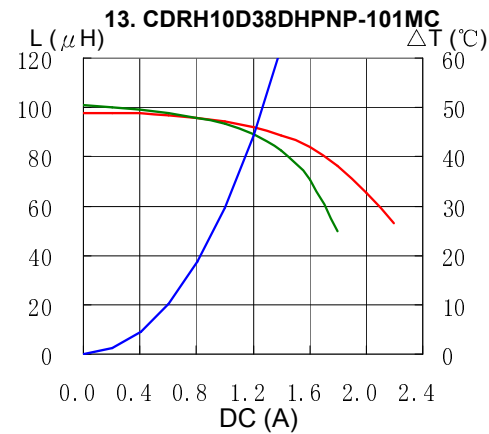


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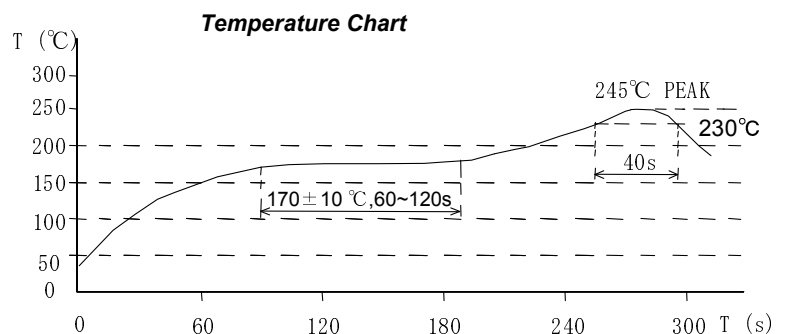
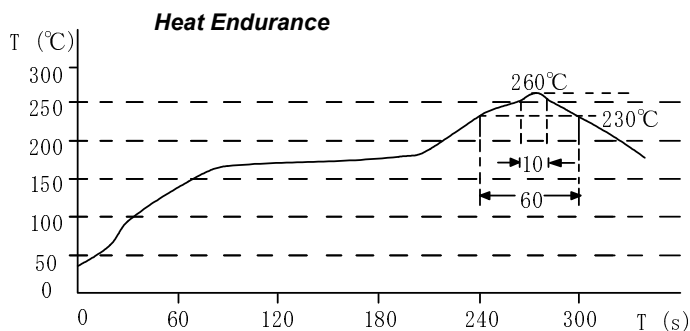


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



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