

# SMD Power Inductor CDRH10D38D

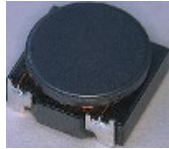


 **sumida**

*Under Development*

RoHS

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.

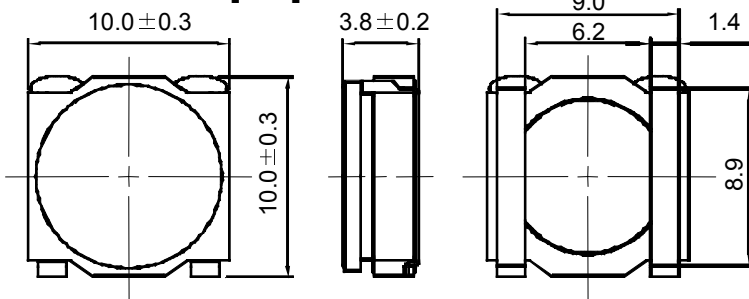
## Packaging

- Carrier tape and reel packaging

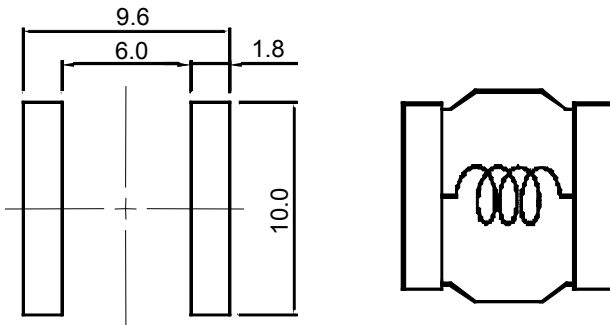
## Applications

- Ideally used in LCD TV and Note PC.

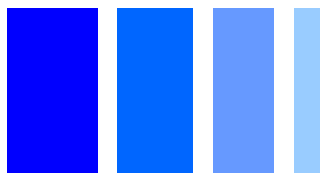
## Dimension - [mm]



## Land pattern and Schematics - [mm]



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## 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
CDRH10D38DNP-R82PC	R82	0.82±25%	3.5±25%	12.90	12.70
CDRH10D38DNP-1R5PC	1R5	1.5±25%	5.0±25%	9.50	11.20
CDRH10D38DNP-2R2PC	2R2	2.2±25%	7.0±25%	7.80	9.30
CDRH10D38DNP-3R3PC	3R3	3.3±25%	9.0±25%	6.45	7.90
CDRH10D38DNP-4R7PC	4R7	4.7±25%	11.0±25%	5.45	7.50
CDRH10D38DNP-6R2MC	6R2	6.2±20%	15.5±25%	4.70	5.95
CDRH10D38DNP-100MC	100	10±20%	22.5±25%	3.55	4.85
CDRH10D38DNP-150MC	150	15±20%	35.5±25%	3.00	3.70
CDRH10D38DNP-220MC	220	22±20%	57±25%	2.45	2.85
CDRH10D38DNP-330MC	330	33±20%	71±25%	2.00	2.65
CDRH10D38DNP-470MC	470	47±20%	100±20%	1.65	2.25
CDRH10D38DNP-680MC	680	68±20%	152±20%	1.40	1.74
CDRH10D38DNP-101MC	101	100±20%	232±20%	1.15	1.38
CDRH10D38DNP-151MC	151	150±20%	355±20%	0.95	1.03
CDRH10D38DNP-221MC	221	220±20%	465±20%	0.75	0.95
CDRH10D38DNP-331MC	331	330±20%	710±20%	0.65	0.76
CDRH10D38DNP-471MC	471	470±20%	1065±20%	0.55	0.65

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

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

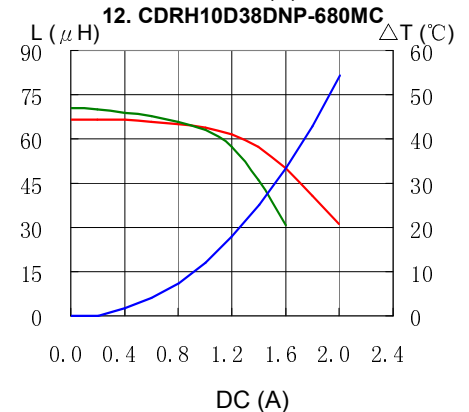
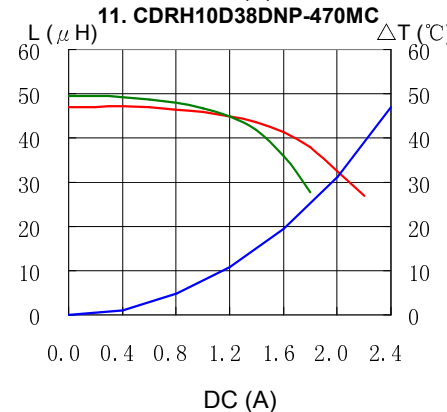
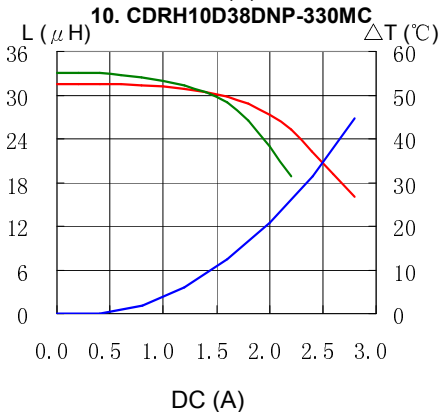
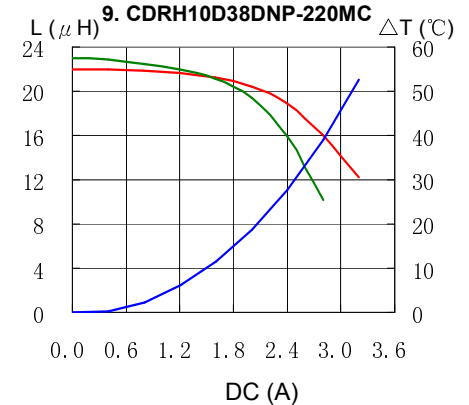
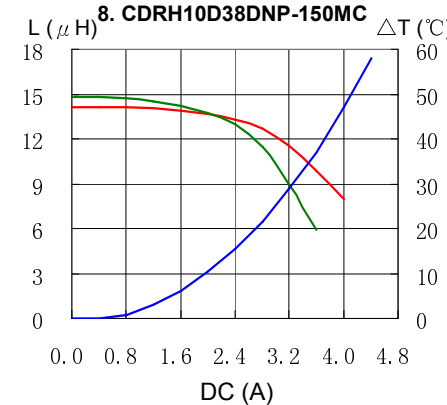
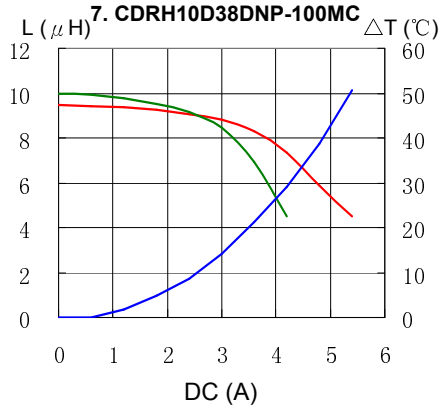
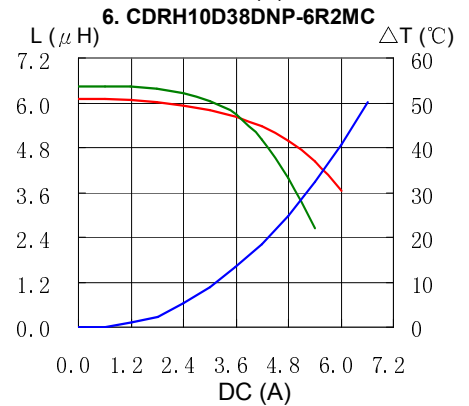
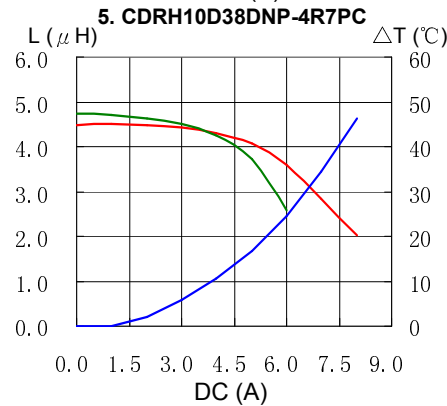
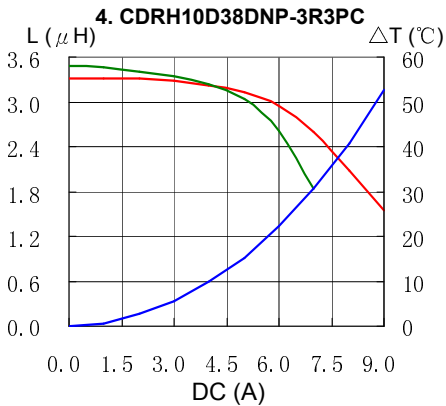
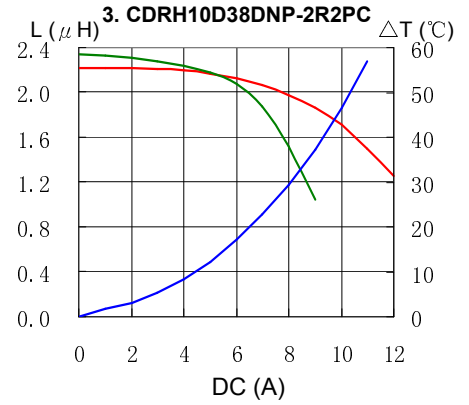
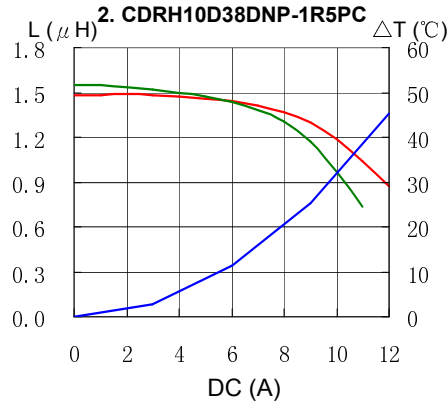
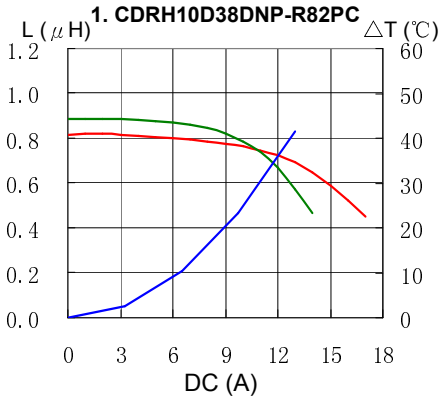
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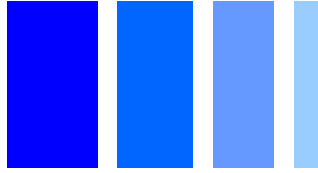
*Under Development*

## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



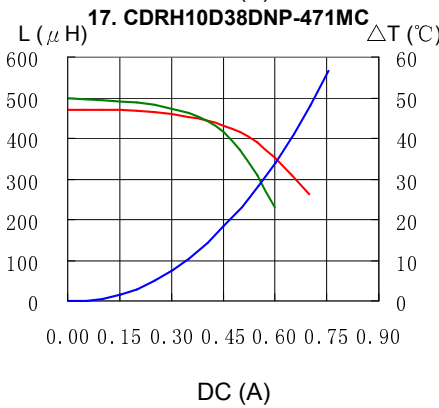
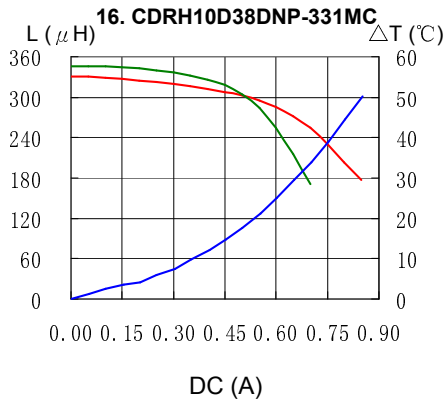
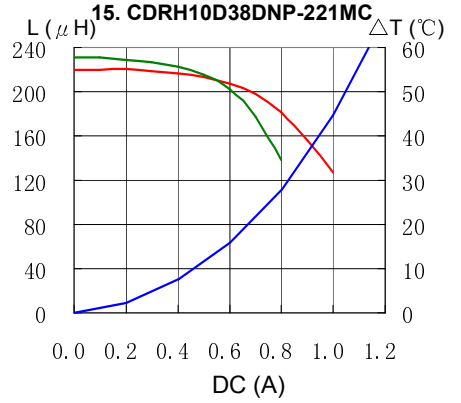
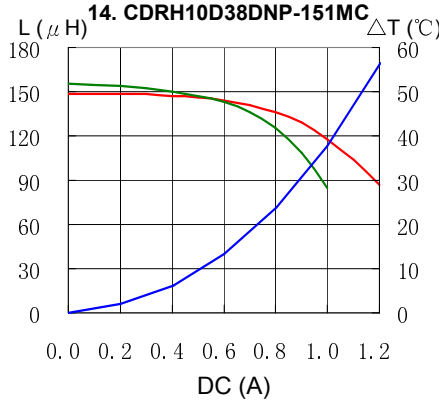
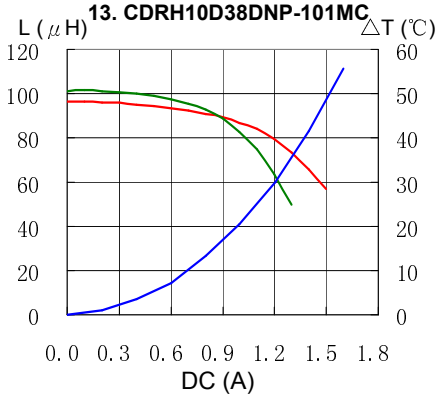
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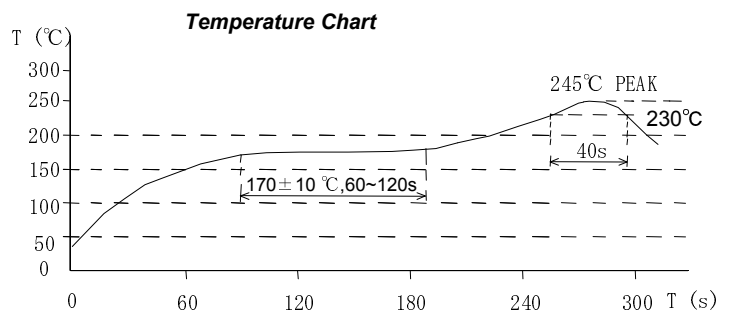
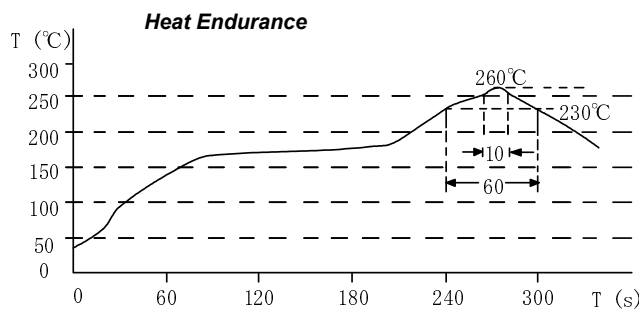
*Under Development*

## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



## Solder Reflow Condition



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