

# 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.

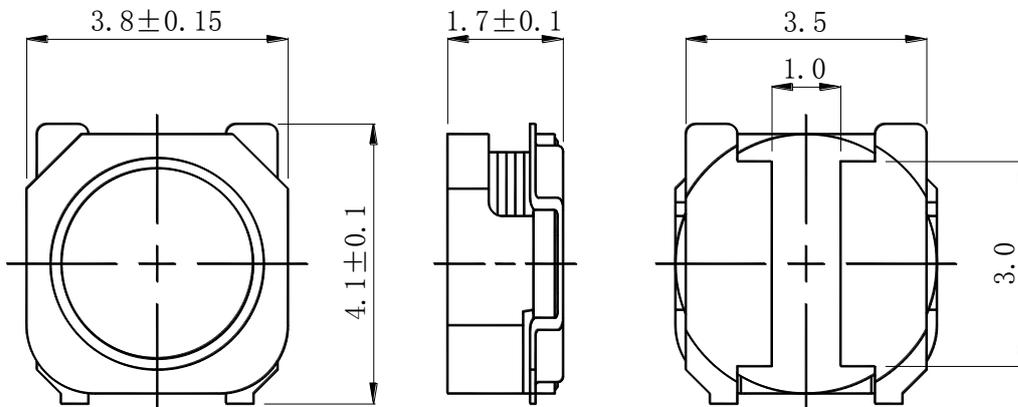
### Packaging

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

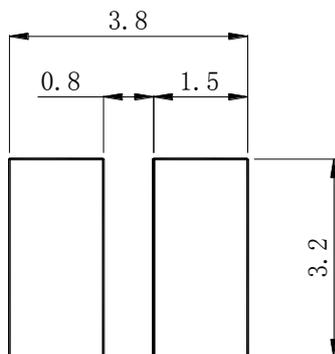
### Applications

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

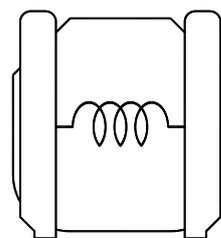
### Dimension - [mm]



### Recommended Land pattern - [mm]



### Connection (Bottom view)



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

# SMD Power Inductor

## CDRH38D16R/LD



### Electrical Characteristics

Part No.	Stamp	Inductance ( $\mu$ H) [Within] ※1	D.C.R. (m $\Omega$ ) [Within] (at20°C)	Saturation current (A) ※2		Temperature rise Current (A) ※3
				(at20°C)	(at105°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  $\Delta t=40^{\circ}\text{C}$ ( $T_a=20^{\circ}\text{C}$ ).

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

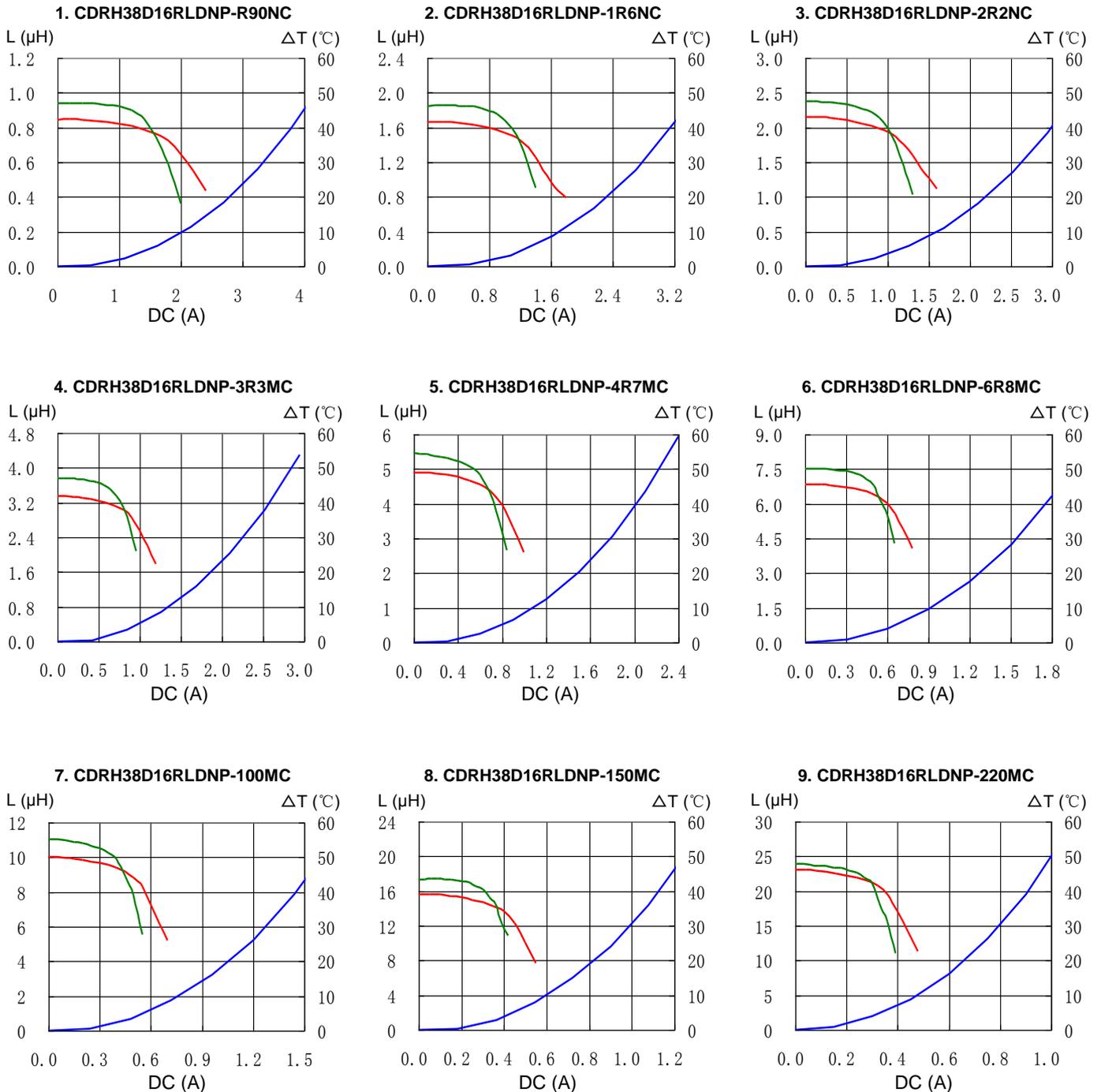
# SMD Power Inductor

## CDRH38D16R/LD



### Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

# SMD Power Inductor

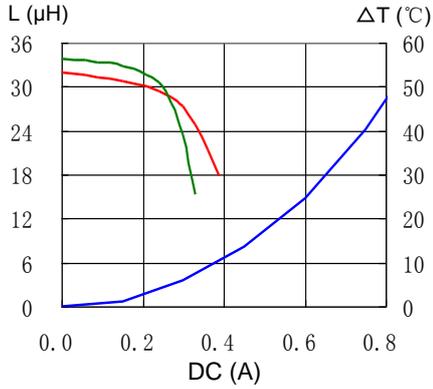
## CDRH38D16R/LD



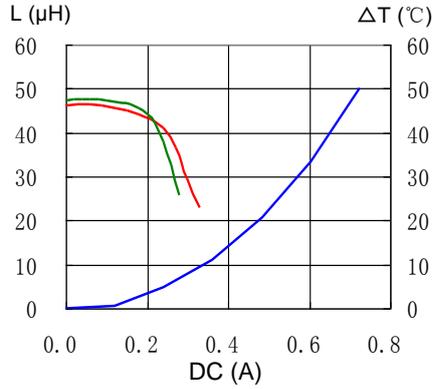
### Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

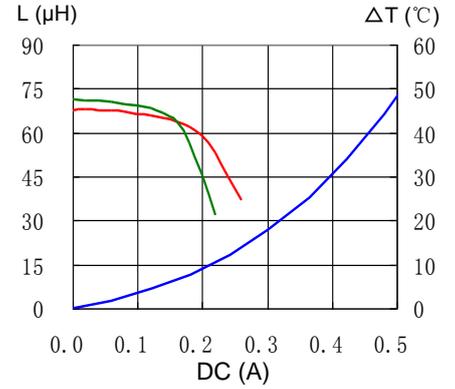
10. CDRH38D16RLDNP-330MC



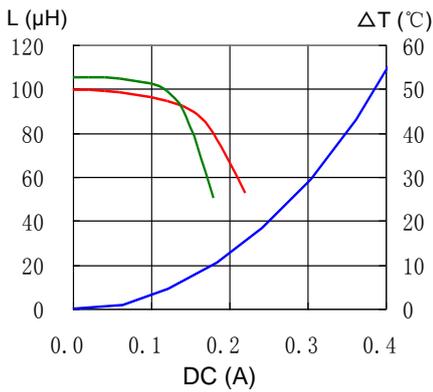
11. CDRH38D16RLDNP-470MC



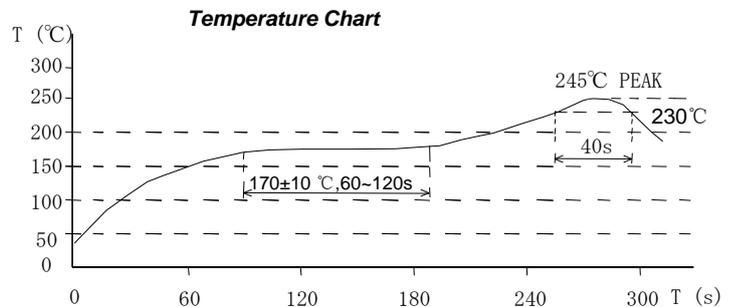
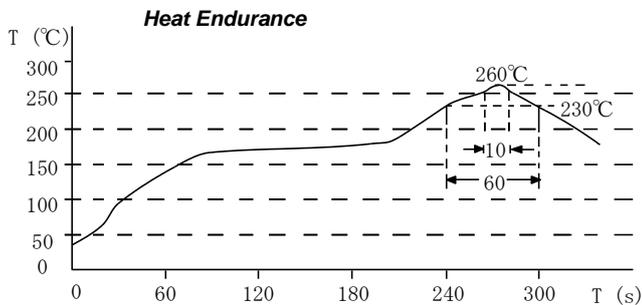
12. CDRH38D16RLDNP-680MC



13. CDRH38D16RLDNP-101MC



### Solder Reflow Condition



For sales office information, please [click here](#) to visit our website.

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.