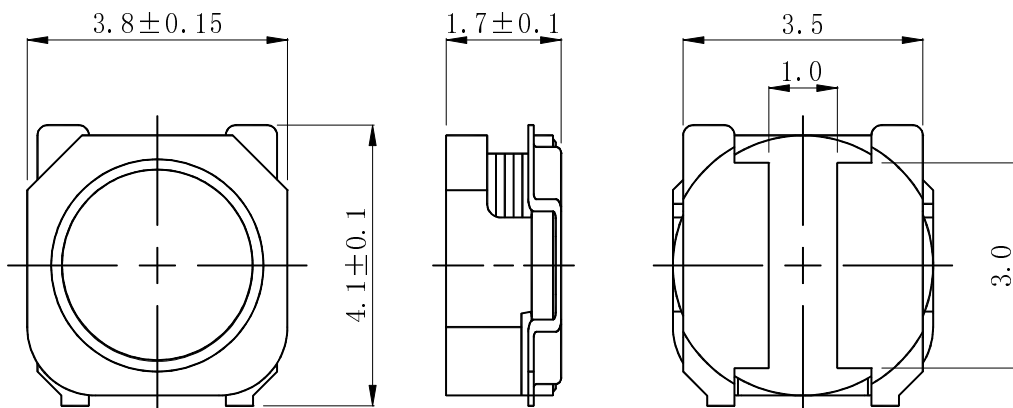
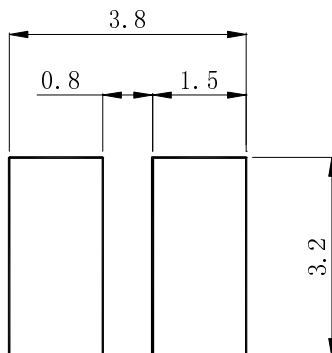
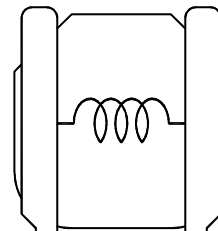


**Type: CDRH38D16R/HP**
**◆ Product Description**

- 4.2×3.95mm Max.(L×W), 1.8mm Max. Height.
- Inductance range: 0.90~68  $\mu$  H;
- Rated current range: 0.30~2.66A;
- Custom design is available.


**◆ Feature**

- Magnetically shielded construction.
- Storage temperature range: -40°C~+105°C.
- Operating temperature range: -40°C~+105°C (including coil's self-heat).
- Ideally used in Mobilephone,PDA,MP3,DSC/DVC,HDD,etc as DC-DC converter inductors.
- Product weight: 0.085g (Ref.).
- RoHS compliance.

**◆ Dimensions (mm)**

**◆ Land Pattern (mm)**

**◆ Schematics (Bottom)**


**Type: CDRH38D16R/HP**
**◆ Specification**

Part No. ※	Stamp	Inductance ( $\mu$ H) at 100KHz	D.C.R. (m $\Omega$ ) (at 20°C)	Saturation Current (A) ※1		Temperature Rise Current (A) ※2
				at 20°C	at 100°C	
CDRH38D16RHPNP-R90N□	A	0.9 $\pm$ 30%	20 $\pm$ 25%	2.66	2.40	3.30
CDRH38D16RHPNP-1R6N□	B	1.6 $\pm$ 30%	29 $\pm$ 25%	2.06	1.76	2.95
CDRH38D16RHPNP-2R2N□	C	2.2 $\pm$ 30%	34 $\pm$ 25%	1.76	1.50	2.65
CDRH38D16RHPNP-3R3M□	D	3.3 $\pm$ 20%	59 $\pm$ 25%	1.46	1.22	1.95
CDRH38D16RHPNP-4R7M□	E	4.7 $\pm$ 20%	82 $\pm$ 25%	1.24	1.07	1.60
CDRH38D16RHPNP-6R8M□	F	6.8 $\pm$ 20%	112 $\pm$ 25%	1.00	0.85	1.35
CDRH38D16RHPNP-100M□	G	10 $\pm$ 20%	156 $\pm$ 20%	0.84	0.72	1.15
CDRH38D16RHPNP-150M□	H	15 $\pm$ 20%	216 $\pm$ 20%	0.66	0.56	1.00
CDRH38D16RHPNP-220M□	J	22 $\pm$ 20%	371 $\pm$ 20%	0.54	0.46	0.75
CDRH38D16RHPNP-330M□	K	33 $\pm$ 20%	694 $\pm$ 20%	0.45	0.38	0.50
CDRH38D16RHPNP-470M□	L	47 $\pm$ 20%	847 $\pm$ 20%	0.38	0.32	0.45
CDRH38D16RHPNP-680M□	M	68 $\pm$ 20%	1357 $\pm$ 20%	0.32	0.27	0.30

**※ Description of part name**

CDRH38D16RHPNP-1R6N□

— B: Box  
 — C: Carrier Tape

※1. Saturation current: The DC current at which the inductance decreases to 70% of its nominal value.

※2. Temperature rise current: The DC current at which the temperature rise is  $\Delta t=40^{\circ}\text{C}$ . ( $T_a=20^{\circ}\text{C}$ ).