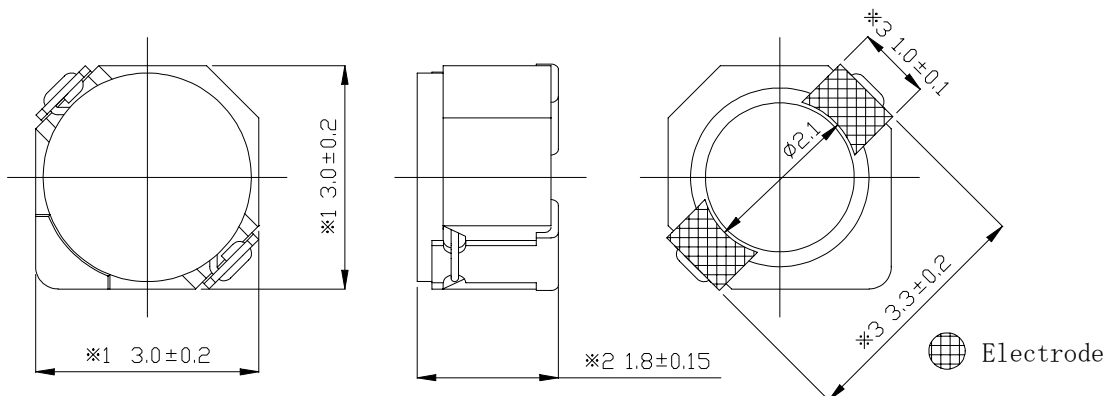
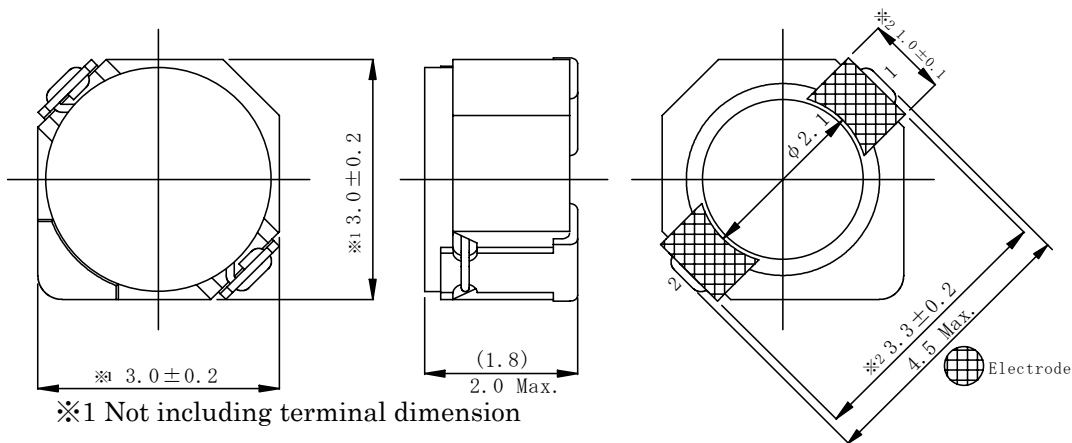


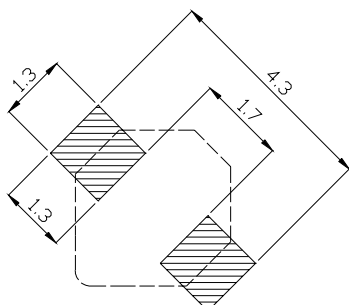
**Type: CDRH2D18B/HP, CDRH2D18/HP, CDRH2D18/LD**
**◆ Product Description**

- 3.2×3.2mm Max.(L×W) for the three types.
- 1.95mm Max.Height(CDRH2D18B/HP), 2.0mm Max.Height(CDRH2D18/HP&CDRH2D18/LD).
- CDRH2D18B/HP has a better stability in high(2MHz) and low(100KHz) frequency range
- Inductance range: 1.3~22  $\mu$  H(CDRH2D18B/HP), 2.2~47  $\mu$  H(CDRH2D18/LD);0.2~15  $\mu$  H(CDRH2D18/HP),
- Rated current range:0.45~1.80A(CDRH2D18B/HP), 0.2~0.85A (CDRH2D18/LD);0.64~4.7A (CDRH2D18/HP).
- In addition to the standards versions shown here, custom inductors are also available to meet your exact requirements.


**◆ Feature**

- Magnetically shielded construction.
- Ideally used in Mobilephone,PDA,MP3,DSC/DVC,Portable DVD,etc as DC-DC Converter inductors.
- RoHS Compliance.

**◆ Dimensions (mm)**

**CDRH2D18B/HP**

**CDRH2D18/HP CDRH2D18/LD**

**Type: CDRH2D18B/HP, CDRH2D18/HP, CDRH2D18/LD**
**◆ Land Pattern (mm)**

**◆ Specification(CDRH2D18B/HP)**

Part Name ※	Stamp	Inductance ( $\mu$ H) [Within] 100kHz/1V	D.C.R.m $\Omega$ ) Max.(Typ.) (at 20°C)	Saturation current (A)※1		Temperature rise current (A)※2
				(at 20°C)	(at100°C)	
CDRH2D18B/HPNP-1R3N□	A	1.3 $\pm$ 25%	66(53)	2.20	1.80	1.80
CDRH2D18B/HPNP-2R2N□	C	2.2 $\pm$ 25%	88(70)	1.70	1.50	1.48
CDRH2D18B/HPNP-3R3N□	E	3.3 $\pm$ 25%	103(82)	1.32	1.10	1.30
CDRH2D18B/HPNP-4R7N□	G	4.7 $\pm$ 25%	163(130)	1.20	1.05	1.00
CDRH2D18B/HPNP-6R8N□	I	6.8 $\pm$ 25%	241(193)	1.05	0.90	0.80
CDRH2D18B/HPNP-1 $\emptyset$ ØM□	K	10 $\pm$ 20%	306(245)	0.88	0.76	0.70
CDRH2D18B/HPNP-15ØM□	M	15 $\pm$ 20%	536(429)	0.70	0.60	0.48
CDRH2D18B/HPNP-22ØM□	P	22 $\pm$ 20%	658(526)	0.58	0.50	0.45

**◆ Specification(CDRH2D18/LD)**

Part Name ※	Stamp	Inductance ( $\mu$ H) [Within] 100kHz/1V	D.C.R. (m $\Omega$ ) Max.(Typ.) (at 20°C)	Saturation current (A)※1		Temperature rise current (A)※2
				(at 20°C)	(at100°C)	
CDRH2D18/LDNP-2R2N□	C	2.2 $\pm$ 30%	41(33)	0.85	0.67	2.30
CDRH2D18/LDNP-3R3N□	E	3.3 $\pm$ 30%	54(43)	0.75	0.55	2.10
CDRH2D18/LDNP-4R7N□	G	4.7 $\pm$ 30%	78(62)	0.63	0.47	1.65
CDRH2D18/LDNP-6R8N□	I	6.8 $\pm$ 30%	106(85)	0.52	0.40	1.32
CDRH2D18/LDNP-1 $\emptyset$ ØN□	K	10 $\pm$ 30%	180(145)	0.43	0.33	1.00
CDRH2D18/LDNP-15ØN□	M	15 $\pm$ 30%	220(175)	0.35	0.28	0.80
CDRH2D18/LDNP-22ØN□	O	22 $\pm$ 30%	320(255)	0.30	0.22	0.68
CDRH2D18/LDNP-33ØN□	Q	33 $\pm$ 30%	460(370)	0.24	0.18	0.56
CDRH2D18/LDNP-47ØN□	S	47 $\pm$ 30%	660(530)	0.20	0.15	0.48

**Type: CDRH2D18B/HP, CDRH2D18/HP, CDRH2D18/LD**
**◆ Specification(CDRH2D18/HP)**

Part Name ※	Stamp	Inductance [Within] ( $\mu$ H) ※3	D.C.R. (m $\Omega$ ) Max.(Typ.) (at 20°C)	Saturation current (A)※1		Temperature rise current (A)※2
				(at 20°C)	(at 100°C)	
CDRH2D18/HP-R2 $\emptyset$ N□	N	0.20 $\pm$ 35%	22(17)	5.35	3.55	4.70
CDRH2D18/HP-R36N□	P	0.36 $\pm$ 35%	29(22)	4.62	3.00	4.10
CDRH2D18/HP-R56N□	Q	0.56 $\pm$ 35%	33(25)	3.75	2.76	3.60
CDRH2D18/HP-R82N□	R	0.82 $\pm$ 35%	39(30)	2.91	2.20	3.30
CDRH2D18/HP-1R1N□	S	1.10 $\pm$ 35%	43(33)	2.50	1.90	2.90
CDRH2D18/HP-1R7N□	A	1.70 $\pm$ 30%	44(35)	1.85	1.36	2.20
CDRH2D18/HP-2R2N□	C	2.20 $\pm$ 30%	60(48)	1.60	1.15	1.90
CDRH2D18/HP-3R3N□	E	3.30 $\pm$ 30%	86(69)	1.45	1.10	1.55
CDRH2D18/HP-4R7N□	G	4.70 $\pm$ 30%	140(110)	1.20	0.90	1.20
CDRH2D18/HP-6R3N□	I	6.30 $\pm$ 30%	160(128)	1.05	0.78	1.15
CDRH2D18/HP-1 $\emptyset$ 0N□	K	10.0 $\pm$ 30%	245(195)	0.85	0.65	0.90
CDRH2D18/HP-15 $\emptyset$ N□	M	15.0 $\pm$ 30%	345(275)	0.70	0.53	0.64

**※ Description of part name**

 CDRH2D18/HP-R2 $\emptyset$ N□

- B Box
- C Carrier Tape

※1.Saturation Current: The DC current at which the inductance decreases to 65% of it's nominal value

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

 ※3 Measuring frequency      0.20  $\mu$  H $\sim$ 1.10  $\mu$  H      at      7.96MHz  
    1.70  $\mu$  H $\sim$ 15.0  $\mu$  H      at      100kHz