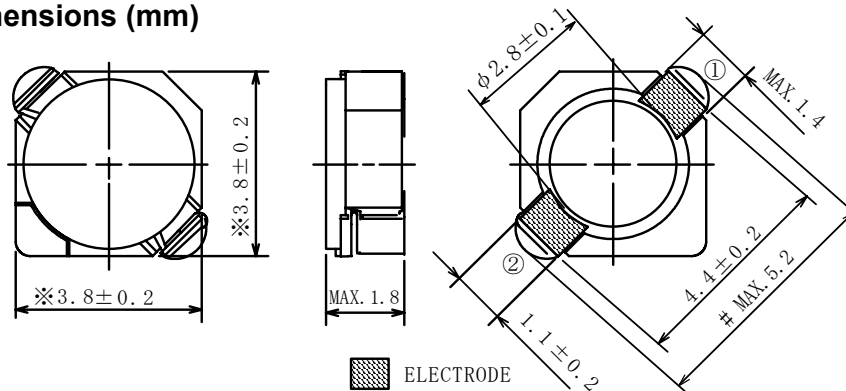


Type: CDRH3D16, CDRH3D16/HP, CDRH3D16/LD
◆ Product Description

- 4.0×4.0mm Max.(L×W),1.80mm Max.Height.
- Inductance range: 0.26~33 μH (CDRH3D16), 1.7~33 μH (CDRH3D16/HP),
3.3~47 μH (CDRH3D16/LD).
- Rated current range:0.32~3.6A(CDRH3D16),0.41~2.0A(CDRH3D16/HP),
0.21~0.8A (CDRH3D16/LD).
- In addition to the standards versions shown here, custom inductors are also available to meet your exact requirements.

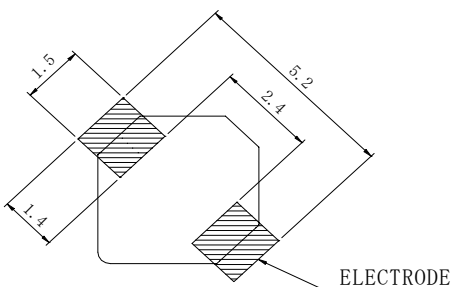

◆ Feature

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

◆ Dimensions (mm)


※ Not including terminal dimension

(0.26 μH~4.7 μH) ARE MANAGED WITH STANDARD MAX. 5.4

◆ Land Pattern (mm)


Type: CDRH3D16, CDRH3D16/HP, CDRH3D16/LD
◆ Specification(CDRH3D16)

Part Name ※	Stamp	Inductance (μ H) [Within] 100kHz/1V	D.C.R.(m Ω) Max.(Typ.) (at 20°C)	Rated current (mA) ※1
CDRH3D16NP-R26N□	R	0.26 \pm 35%	27.5(21)	3600
CDRH3D16NP-R47N□	S	0.47 \pm 35%	35(27)	2750
CDRH3D16NP-ØR7N□	T	0.70 \pm 35%	43(33)	2250
CDRH3D16NP-1R1N□	U	1.10 \pm 35%	50(38)	1900
CDRH3D16NP-1R5N□	A	1.50 \pm 30%	52(40)	1550
CDRH3D16NP-2R2N□	C	2.20 \pm 30%	72(55)	1200
CDRH3D16NP-3R3N□	E	3.30 \pm 30%	85(65)	1100
CDRH3D16NP-4R7N□	G	4.70 \pm 30%	105(80)	900
CDRH3D16NP-6R8N□	I	6.80 \pm 30%	170(130)	730
CDRH3D16NP-1ØØN□	K	10.0 \pm 30%	210(160)	550
CDRH3D16NP-15ØN□	M	15.0 \pm 30%	295(225)	450
CDRH3D16NP-22ØN□	O	22.0 \pm 30%	430(330)	400
CDRH3D16NP-33ØN□	Q	33.0 \pm 30%	675(520)	320

※1 Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when $\Delta t=30^{\circ}\text{C}$, whichever is lower($T_a=20^{\circ}\text{C}$).

◆ Specification(CDRH3D16/HP)

Part Name ※	Stamp	Inductance (μ H) [Within] 100kHz/1V	D.C.R. (m Ω) Max.(Typ.) (at 20°C)	Saturation Current (A) ※1		Temperature Rise current (A) ※2
				(at 20°C)	(at 105°C)	
CDRH3D16/HPNP-1R7N□	A	1.7 \pm 30%	51(41)	2.0	1.5	2.40
CDRH3D16/HPNP-2R2N□	C	2.2 \pm 30%	59(47)	1.75	1.3	2.30
CDRH3D16/HPNP-3R3N□	E	3.3 \pm 30%	85(68)	1.4	1.1	1.80
CDRH3D16/HPNP-4R7N□	G	4.7 \pm 30%	116(93)	1.2	0.9	1.50
CDRH3D16/HPNP-6R8N□	J	6.8 \pm 30%	180(145)	1.0	0.72	1.10
CDRH3D16/HPNP-1ØØM□	L	10 \pm 20%	230(185)	0.84	0.62	1.00
CDRH3D16/HPNP-15ØM□	N	15 \pm 20%	410(328)	0.65	0.52	0.75
CDRH3D16/HPNP-22ØM□	P	22 \pm 20%	610(488)	0.55	0.43	0.52
CDRH3D16/HPNP-33ØM□	Q	33 \pm 20%	870(695)	0.46	0.35	0.41

Type: CDRH3D16, CDRH3D16/HP, CDRH3D16/LD
◆ Specification (CDRH3D16/LD)

Part Name ※	Stamp	Inductance (μ H) [Within] 100kHz/1V	D.C.R.(m Ω) Max.(Typ.) (at 20°C)	Saturation Current (A) ※1		Temperature Rise current (A) ※2
				at 20°C	at 100°C	
CDRH3D16/LDNP-3R3N□	A	3.3±30%	66(53)	0.80	0.52	2.00
CDRH3D16/LDNP-3R9N□	B	3.9±30%	81(65)	0.75	0.44	1.75
CDRH3D16/LDNP-4R7N□	C	4.7±30%	91(73)	0.68	0.43	1.72
CDRH3D16/LDNP-5R6N□	D	5.6±30%	102(82)	0.62	0.38	1.64
CDRH3D16/LDNP-6R8N□	E	6.8±30%	130(104)	0.58	0.34	1.30
CDRH3D16/LDNP-8R2N□	F	8.2±30%	140(112)	0.51	0.32	1.28
CDRH3D16/LDNP-10 \emptyset N□	G	10±30%	190(152)	0.46	0.27	1.07
CDRH3D16/LDNP-12 \emptyset N□	H	12±30%	205(164)	0.42	0.26	0.98
CDRH3D16/LDNP-15 \emptyset N□	J	15±30%	272(218)	0.38	0.23	0.87
CDRH3D16/LDNP-18 \emptyset N□	K	18±30%	327(262)	0.34	0.21	0.76
CDRH3D16/LDNP-22 \emptyset N□	L	22±30%	356(285)	0.31	0.18	0.66
CDRH3D16/LDNP-27 \emptyset N□	M	27±30%	470(377)	0.28	0.17	0.60
CDRH3D16/LDNP-33 \emptyset N□	N	33±30%	560(446)	0.26	0.16	0.55
CDRH3D16/LDNP-39 \emptyset N□	P	39±30%	700(558)	0.24	0.15	0.47
CDRH3D16/LDNP-47 \emptyset N□	Q	47±30%	775(630)	0.21	0.13	0.45

※ Description of Part Name

CDRH3D16/LDNP-3R3N□

- 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 $\Delta t=40^{\circ}\text{C}$.($T_a=20^{\circ}\text{C}$)