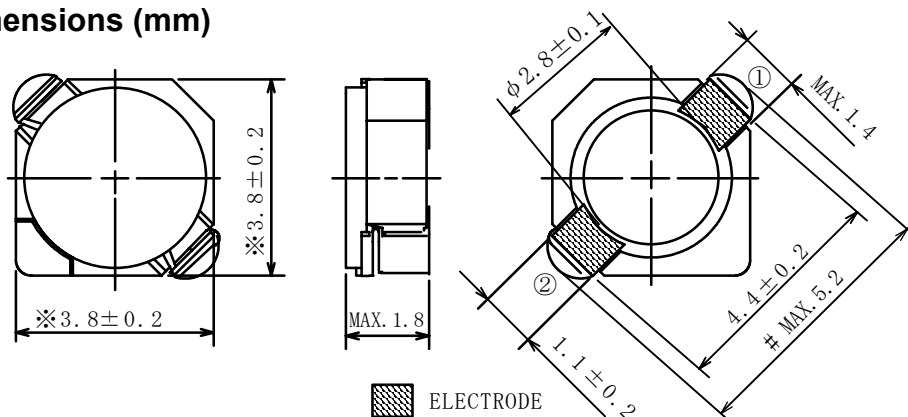


Type: CDRH3D16, CDRH3D16/HP, CDRH3D16/LD
◆ Product Description

- 4.0×4.0mm Max.(L×W),1.80mm Max.Height.
- Inductance range: 0.26~33 μ H (CDRH3D16), 1.7~33 μ H (CDRH3D16/HP),
3.3~47 μ H (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.

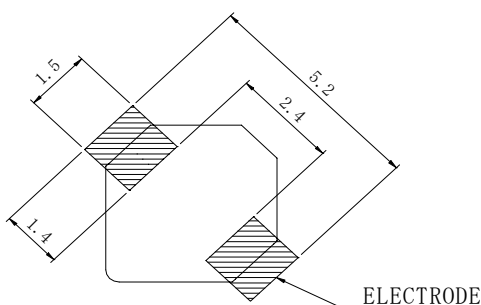

◆ Feature

- 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 μ H~4.7 μ H) 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) | (at105°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 $\Delta t=40^{\circ}\text{C}$.($T_a=20^{\circ}\text{C}$)