

Type: CDPH45D13F

UNDER DEVELOPMENT

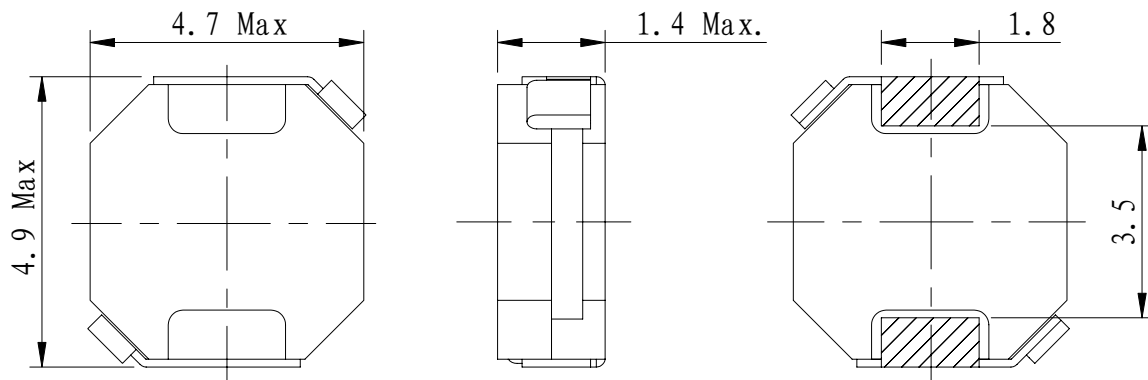
◆ Product Description

- 4.9×4.7mm Max.(L×W),1.4mm Max. Height.
- Inductance range: 1.0~33 μ H.
- Rated current range:0.55~2.50A.
- Custom design is available.

◆ Feature

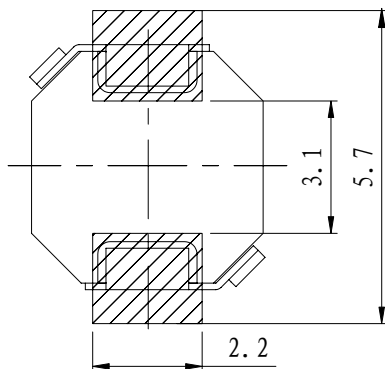
- Magnetically shielded construction.
- Ideally used as DC-DC Converter inductors in Mobile phone, PDA, HDD etc.
- RoHS Compliance.

◆ Dimensions (mm)

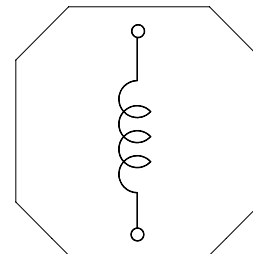


* Dimensions without tolerance are approx.

◆ Land Pattern (mm)



◆ Connection (Bottom View)



Type: CDPH45D13F
◆ Specification

| Part Name ※ | Stamp | Inductance (μ H) 100kHz/1V | D.C.R.(m Ω) Max. (Typ.) (20°C) | Saturation Current (A) (Typ.) ※1 | Temperature rise current (A) (Typ.) ※2 |
|--------------------|-------|---------------------------------------|---|---|---|
| CDPH45D13FNP-1R0NC | A | 1.0 \pm 30% | 51(41) | 4.00(5.00) | 2.50(2.80) |
| CDPH45D13FNP-1R2NC | B | 1.2 \pm 30% | 61(49) | 3.40(4.25) | 2.29(2.60) |
| CDPH45D13FNP-1R8NC | C | 1.8 \pm 30% | 71(57) | 3.12(3.90) | 1.96(2.24) |
| CDPH45D13FNP-2R4MC | D | 2.4 \pm 20% | 85(68) | 2.54(3.18) | 1.92(2.20) |
| CDPH45D13FNP-3R3MC | E | 3.3 \pm 20% | 96(77) | 2.32(2.90) | 1.86(2.10) |
| CDPH45D13FNP-3R9MC | F | 3.9 \pm 20% | 107(86) | 2.08(2.60) | 1.70(1.92) |
| CDPH45D13FNP-4R7MC | G | 4.7 \pm 20% | 120(96) | 2.04(2.55) | 1.62(1.84) |
| CDPH45D13FNP-5R6MC | J | 5.6 \pm 20% | 133(106) | 1.66(2.08) | 1.60(1.82) |
| CDPH45D13FNP-6R8MC | K | 6.8 \pm 20% | 175(140) | 1.63(2.04) | 1.32(1.50) |
| CDPH45D13FNP-100MC | L | 10.0 \pm 20% | 277(222) | 1.30(1.62) | 1.04(1.19) |
| CDPH45D13FNP-120MC | M | 12.0 \pm 20% | 298(238) | 1.26(1.57) | 0.98(1.12) |
| CDPH45D13FNP-150MC | P | 15.0 \pm 20% | 405(324) | 1.15(1.44) | 0.85(0.97) |
| CDPH45D13FNP-180MC | Q | 18.0 \pm 20% | 428(342) | 1.00(1.25) | 0.78(0.89) |
| CDPH45D13FNP-220MC | R | 22.0 \pm 20% | 678(542) | 0.85(1.07) | 0.66(0.75) |
| CDPH45D13FNP-330MC | T | 33.0 \pm 20% | 920(736) | 0.74(0.92) | 0.55(0.63) |

※ Description of part name

CDPH45D13FNP-1R2N□

- B Box
- C Carrier Tape

※1.Saturation current: The DC current at which the inductance decreases to 70% of its nominal value .
(Ta=20°C)

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

※ This spec is not the final revision, and some parts may be changed before production.