

Type: CDEP106

Product Description

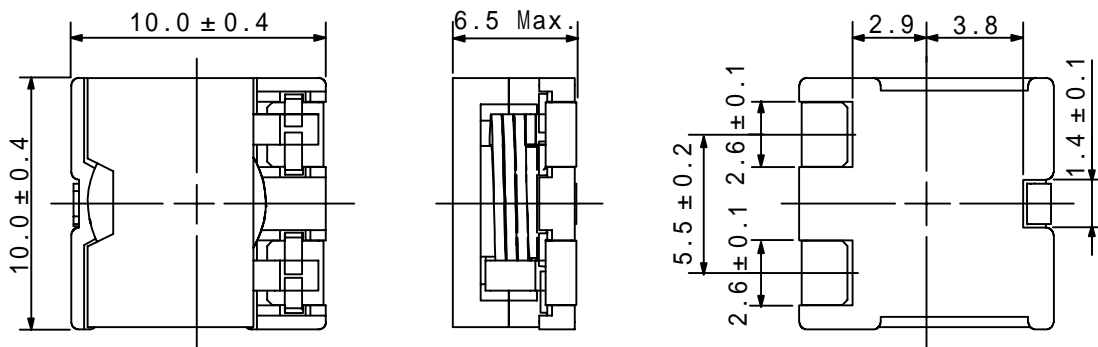
- 10.4 × 10.4mm Max.(L × W), 6.5mm Max. Height.
- Standard type and High Power Type are available.
- Inductance Range:0.36 ~ 10.0 μ H (standard type);
0.20 ~ 5.0 μ H (High Power type).
- Saturation Current range: 4.3 ~ 24.0 A(Standard type) ;
9.6 ~ 48.0A (High Power type).
- Temperature rise current 6.5 ~ 23.0A
- In addition to the standards versions shown here, custom inductors are also available to meet your exact requirements.



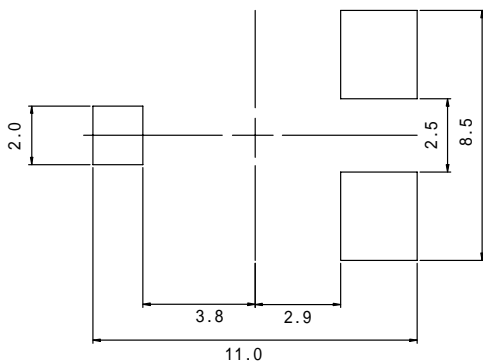
Feature

- Magnetically shielded construction.
- Super high current, Mn-Zn core used, Flat wire used.
- Ideally used in computer CPU power supply.
- RoHS Compliance

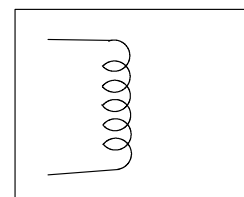
Dimensions (mm)



Land Pattern (mm)



Schematics (Bottom)



Type: CDEP106
Specification
1. Standard Type

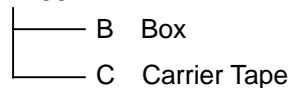
Part Name	Stamp	Inductance [Within] 100kHz/1V	D.C.R. (m ²) Max.(Typ.) (at 20 °C)	Saturation Current (A) Max.(Typ.) 1		Temperature Rise current (A) 2
				(at 20 °C)	(at 100 °C)	
CDEP106NP-R36M -88	R36MS	0.36±20%	1.14(0.95)	24.0(30.0)	19.6(24.5)	23
CDEP106NP-R80M -88	R80MS	0.80±20%	1.68(1.40)	16.0(20.0)	13.2(16.5)	20
CDEP106NP-1R4M -88	1R4MS	1.4±20%	2.30(1.90)	12.0(15.0)	9.9(12.4)	17.5
CDEP106NP-2R2M -88	2R2MS	2.2±20%	3.44(2.87)	9.6(12.0)	8.0(10.0)	13.5
CDEP106NP-3R2M -88	3R2MS	3.2±20%	5.04(4.20)	7.8(9.8)	6.7(8.4)	11.5
CDEP106NP-4R3M -88	4R3MS	4.3±20%	6.40(5.32)	6.6(8.3)	5.8(7.2)	10
CDEP106NP-5R6M -88	5R6MS	5.6±20%	9.81(8.18)	5.8(7.3)	5.0(6.3)	8.5
CDEP106NP-7R2M -88	7R2MS	7.2±20%	11.2(9.34)	5.0(6.3)	4.4(5.5)	7.8
CDEP106NP-8R8M -88	8R8MS	8.8±20%	12.6(10.5)	4.6(5.8)	4.0(5.0)	7.5
CDEP106NP-100M -88	100MS	10±20%	15.9(13.2)	4.3(5.4)	3.6(4.5)	6.5

2. High Power Type

Part Name	Stamp	Inductance [Within] 100kHz/1V	D.C.R. (m ²) Max.(Typ.) (at 20 °C)	Saturation Current (A) Max.(Typ.) 1		Temperature rise current (A) 2
				(at 20 °C)	(at 100 °C)	
CDEP106NP-R20M -50	R20MH	0.20±20%	1.14(0.95)	48.0(60.0)	38.0(47.0)	23
CDEP106NP-R45M -50	R45MH	0.45±20%	1.68(1.40)	31.6(39.5)	25.2(31.5)	20
CDEP106NP-R80M -50	R80MH	0.80±20%	2.30(1.90)	23.2(29.0)	18.8(23.5)	17.5
CDEP106NP-1R2M -50	1R2MH	1.2±20%	3.44(2.87)	19.2(24.0)	15.6(19.5)	13.5
CDEP106NP-1R8M -50	1R8MH	1.8±20%	5.04(4.20)	16.0(20.0)	13.2(16.5)	11.5
CDEP106NP-2R4M -50	2R4MH	2.4±20%	6.40(5.32)	13.6(17.0)	10.8(13.5)	10
CDEP106NP-3R2M -50	3R2MH	3.2±20%	9.81(8.18)	12.2(15.2)	9.8(12.2)	8.5
CDEP106NP-4R0M -50	4R0MH	4.0±20%	11.2(9.34)	10.8(13.5)	8.4(10.5)	7.8
CDEP106NP-5R0M -50	5R0MH	5.0±20%	12.6(10.5)	9.6(12.0)	7.6(9.5)	7.5

Description of part name

CDEP106NP-R36M -88



1 Saturation current: The DC current at which the inductance decreases to 75% of its nominal.

 2 Temperature rise current: The DC current at which the temperature rise is $t = 40$ °C.
 (Ta = 20 °C)