Type: CDEP145



◆ Product Description

・14.9×14.9mm Max. (L×W), 6.0mm Max. height

・Standard type and High Power Type are available.

・Inductance range : 0.68～6.1 μH(Standard type);
0.56～5.0 μH (High Power type).

・Saturation Current range: 10.4～30.0A(Standard type) ;13.1～36.0A (High Power type).

・Temperature rise current range: 9.5～23A

・In addition to the standards versions shown here, custom inductors are also available to meet your exact requirements.

◆ Feature

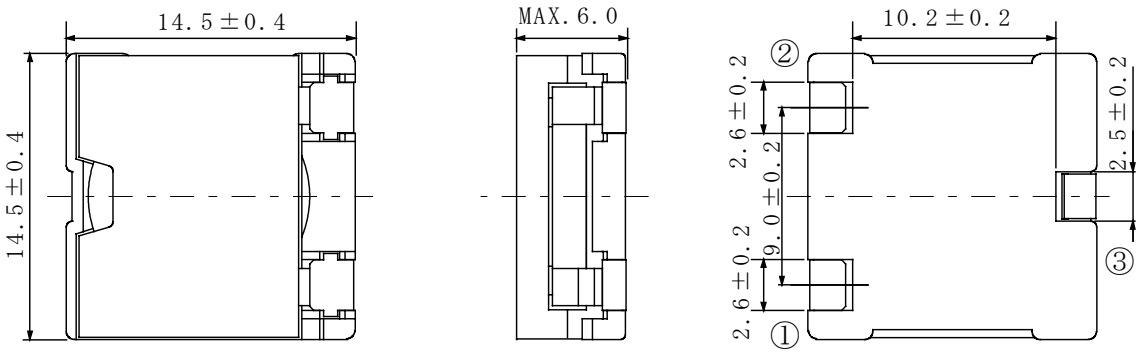
・Super high current inductors.

・Mn-Zn core used, Flat wire used.

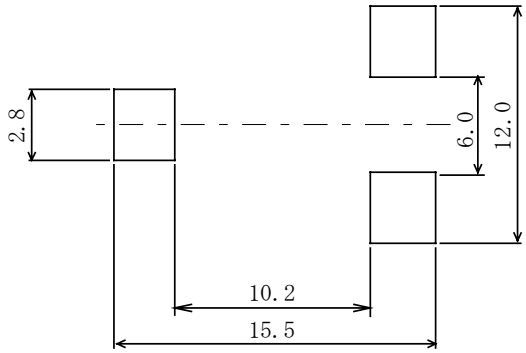
・Ideally used in portable computer CPU power supply.

・RoHS Compliance

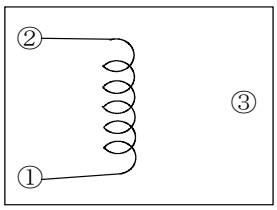
◆ Dimensions (mm)



◆ Land Pattern (mm)



◆ Schematics (Bottom)



Type: CDEP145

◆ Specification

1.Standard Type

Part Name ※	Stamp	Inductance ［Within］ 100kHz/1V	D.C.R. (mΩ) Max.(Typ.) (at 20℃)	Saturation Current （A）※1		Temperature Rise current (A) ※2
				(at 20℃)	(at100℃)	
CDEP145NP-ØR6M□-17Ø	0R6M	0.68μH±20%	1.7(1.4)	30.0	25.6	23.0
CDEP145NP-1R5M□-17Ø	1R5M	1.5μH±20%	3.0(2.5)	19.8	17.0	19.5
CDEP145NP-2R7M□-17Ø	2R7M	2.7μH±20%	4.6(3.8)	15.2	13.0	15.0
CDEP145NP-4R2M□-17Ø	4R2M	4.2μH±20%	7.4(6.2)	12.3	10.6	12.0
CDEP145NP-6R1M□-17Ø	6R1M	6.1μH±20%	10.8(9.0)	10.4	8.8	9.5

2.High Power Type

Part Name ※	Stamp	Inductance ［Within］ 100kHz/1V	D.C.R. (mΩ) Max.(Typ.) (at 20℃)	Saturation Current （A）※1		Temperature Rise current (A) ※2
				(at 20℃)	(at100℃)	
CDEP145NP-ØR5M□-14Ø	0R5M	0.56μH±20%	1.7(1.4)	36.0	31.2	23.0
CDEP145NP-1R2M□-14Ø	1R2M	1.2μH±20%	3.0(2.5)	25.0	20.8	19.5
CDEP145NP-2R2M□-14Ø	2R2M	2.2μH±20%	4.6(3.8)	19.2	16.0	15.0
CDEP145NP-3R5M□-14Ø	3R5M	3.5μH±20%	7.4(6.2)	15.4	13.0	12.0
CDEP145NP-5RØM□-14Ø	5R0M	5.0μH±20%	10.8(9.0)	13.1	10.8	9.5

※ Description of part name

CDEP145NP-ØR6M□-17Ø

- B Box
- C Carrier Tape

※1.Saturation Current: The DC current at which the inductance decreases to 75% of it's nominal value

※2 Temperature rise current:The DC current at which the temperature rise is △t＝40℃.(Ta＝20℃)