Type: CDEP145
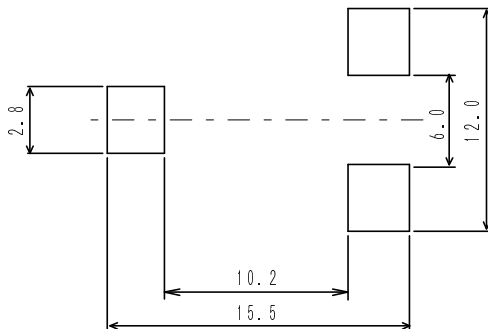
◆ Product Description

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

· Standard type and High Power Type are available.

· Inductance range : 0.68～6.1μH(Standard type);

  0.56～5.0μH (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.
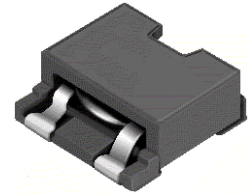
◆ Feature

·Super high current inductors.

·Mn-Zn core used, Flat wire used.

·Ideally used in portable computer CPU power supply.

· Qualification to AEC-Q200

·RoHS Compliance

◆ Dimensions (mm)
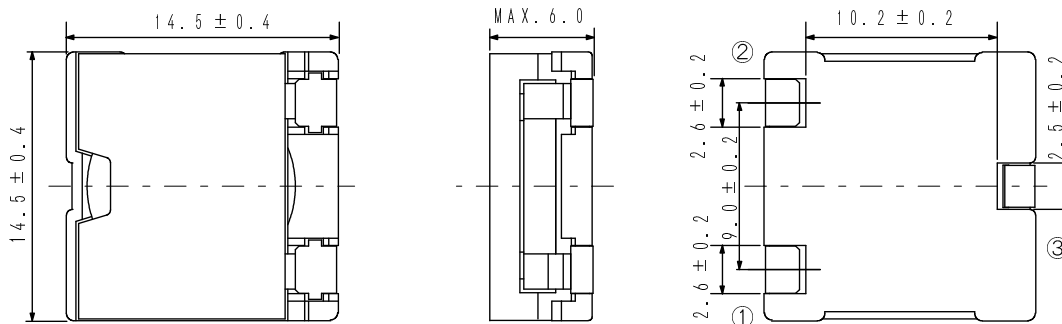
◆ Land Pattern (mm)

◆ Schematics (Bottom)

Please refer to the sales offices on our website for a representative near you
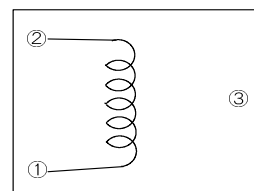
Type: CDEP145

◆ Specification

1. Standard Type

Part Name ※	Stamp	Inductance (μH) 100kHz/1V	D.C.R. (mΩ) Max.(Typ.) (at 20℃)	Saturation Current (A) ※1		Temperature Rise current (A) ※2
				(at 20℃)	(at100℃)	
CDEP145NP-0R6M□-170	0R6M	0.68±20％	1.7(1.4)	30.0	25.6	23.0
CDEP145NP-1R5M□-170	1R5M	1.5±20％	3.0(2.5)	19.8	17.0	19.5
CDEP145NP-2R7M□-170	2R7M	2.7±20％	4.6(3.8)	15.2	13.0	15.0
CDEP145NP-4R2M□-170	4R2M	4.2±20％	7.4(6.2)	12.3	10.6	12.0
CDEP145NP-6R1M□-170	6R1M	6.1±20％	10.8(9.0)	10.4	8.8	9.5

2. High Power Type

Part Name ※	Stamp	Inductance (μH) 100kHz/1V	D.C.R. (mΩ) Max.(Typ.) (at 20℃)	Saturation Current (A) ※1		Temperature Rise current (A) ※2
				(at 20℃)	(at100℃)	
CDEP145NP-0R5M□-140	0R5M	0.56±20％	1.7(1.4)	36.0	31.2	23.0
CDEP145NP-1R2M□-140	1R2M	1.2±20％	3.0(2.5)	25.0	20.8	19.5
CDEP145NP-2R2M□-140	2R2M	2.2±20％	4.6(3.8)	19.2	16.0	15.0
CDEP145NP-3R5M□-140	3R5M	3.5±20％	7.4(6.2)	15.4	13.0	12.0
CDEP145NP-5R0M□-140	5R0M	5.0±20％	10.8(9.0)	13.1	10.8	9.5

※ Description of part name

CDEP145NP-0R6M□-170

└─── 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℃)