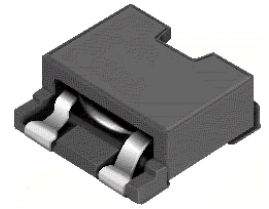
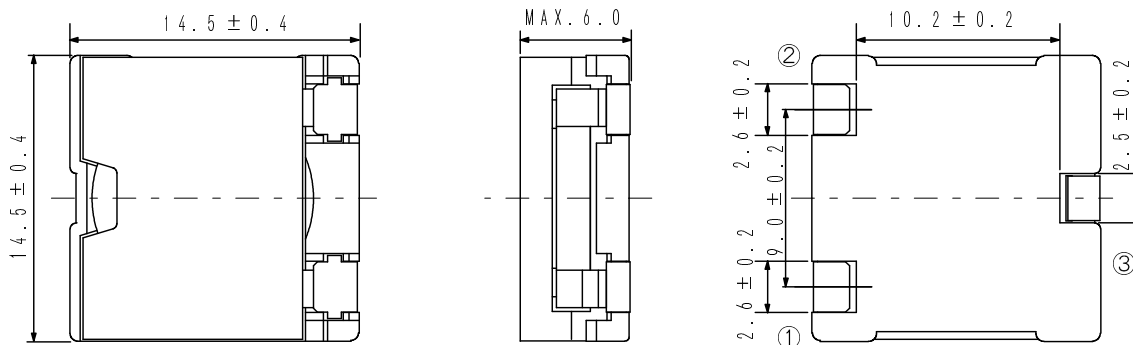
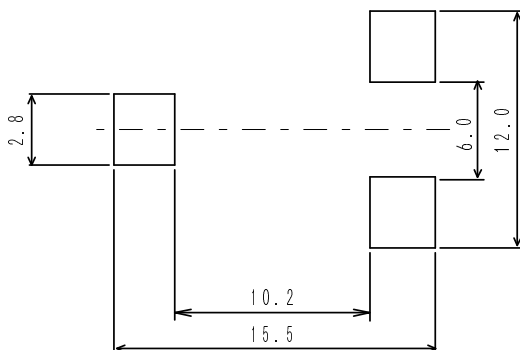
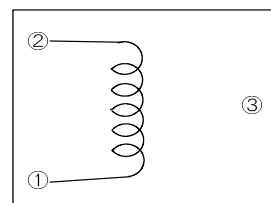


**Type: CDEP145**
**◆ Product Description**


- 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  $\mu$  H(Standard type ) ; 0.56~5.0  $\mu$  H (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)**


**Type: CDEP145**
**◆ Specification**
**1. Standard Type**

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

**2. High Power Type**

Part Name ※	Stamp	Inductance ( $\mu$ H) 100kHz/1V	D.C.R. (m $\Omega$ ) Max.(Typ.) (at 20°C)	Saturation Current (A) ※1		Temperature Rise current (A) ※2
				(at 20°C)	(at100°C)	
CDEP145NP-0R5M□-140	0R5M	0.56 $\pm$ 20%	1.7(1.4)	36.0	31.2	23.0
CDEP145NP-1R2M□-140	1R2M	1.2 $\pm$ 20%	3.0(2.5)	25.0	20.8	19.5
CDEP145NP-2R2M□-140	2R2M	2.2 $\pm$ 20%	4.6(3.8)	19.2	16.0	15.0
CDEP145NP-3R5M□-140	3R5M	3.5 $\pm$ 20%	7.4(6.2)	15.4	13.0	12.0
CDEP145NP-5R0M□-140	5R0M	5.0 $\pm$ 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  $\Delta t=40^{\circ}\text{C}$ .( $T_a=20^{\circ}\text{C}$ )