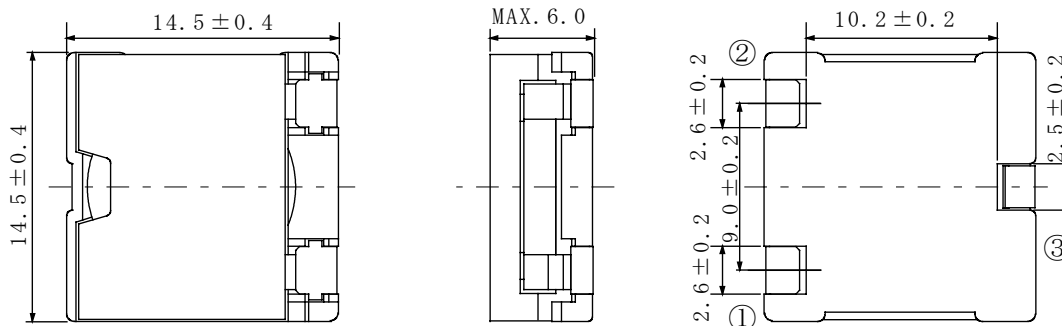
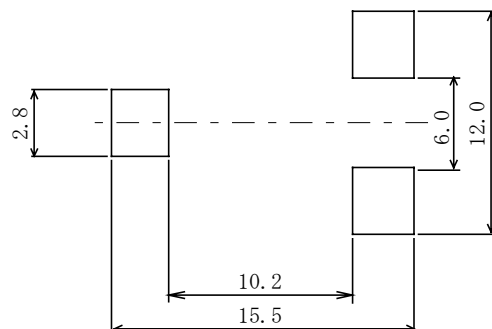
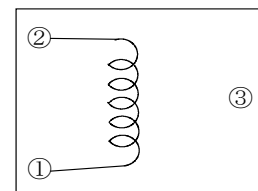


**Type: CDEP145**
**◆ Product Description**

- 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**

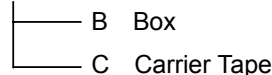
| Part Name<br>※      | Stamp | Inductance<br>[Within]<br>100kHz/1V | D.C.R.<br>(mΩ)<br>Max.(Typ.)<br>(at 20°C) | Saturation Current<br>(A) ※1 |            | Temperature<br>Rise current<br>(A) ※2 |
|---------------------|-------|-------------------------------------|---|------------------------------|------------|---------------------------------------|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

**2. High Power Type**

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

**※ Description of part name**

CDEP145NP-ØR6M□-17Ø



※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 Δt=40°C.(Ta=20°C)