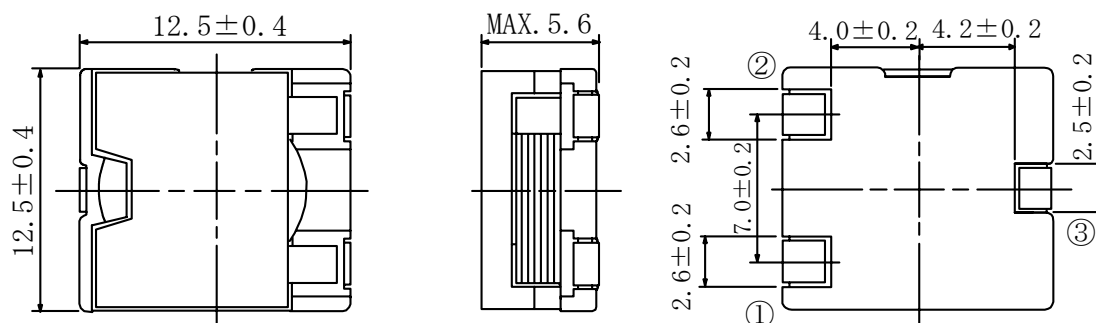
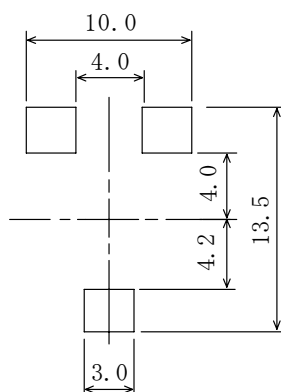
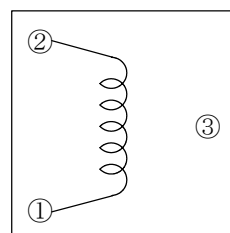


**Type: CEP125**
**◆ Product Description**

- 12.9×12.9mm Max. (L×W), 5.6mm Max. height
- Standard Type, High Power Type, Ultra Power Type are available.
- Inductance range : 0.68~10μH(Standard type );  
0.47~7.2μH(High Power type); 0.35~5.6μH (Ultra Power Type).
- Saturation Current range: 5.0~20.4A(Standard type ) ;  
7.8~28.8A (High Power type); 9.5~35.0A (Ultra Power Type).
- Temperature rise current range 7.6~19.5A
- Custom design is available.


**◆ Feature**

- Mn-Zn core used, Flat wire used.
- Super high current Inductors, ideally used in portable computer CPU power supply.
- RoHS Compliance

**◆ Dimensions (mm)**

**◆ Land Pattern (mm)**

**◆ Schematics (Bottom)**


**Type: CEP125**
**◆ Specification**
**1-Standard Type**

| Part Name<br>※   | Stamp | Inductance<br>100kHz | D.C.R.(mΩ)<br>Max.(Typ.)<br>( 20℃) | Saturation Current<br>(A) ※1 |         | Temperature<br>Rise current<br>(A) ※2 |
|------------------|-------|----------------------|------------------------------------|------------------------------|---------|---------------------------------------|
|                  |       |                      |                                    | ( 20℃)                       | ( 100℃) |                                       |
| CEP125NP-0R6N□-D | 0R6ND | 0.68 μH ± 30%        | 1.5(1.2)                           | 20.4                         | 17.6    | 19.5                                  |
| CEP125NP-1R5M□-D | 1R5MD | 1.50 μH ± 20%        | 2.2(1.8)                           | 14.0                         | 11.8    | 18.0                                  |
| CEP125NP-2R5M□   | 2R5M  | 2.5 μH ± 20%         | 3.4(2.8)                           | 10.0                         | 8.8     | 15.5                                  |
| CEP125NP-4R0M□   | 4R0M  | 4.0 μH ± 20%         | 5.4(4.5)                           | 8.3                          | 7.2     | 12.5                                  |
| CEP125NP-6R0M□   | 6R0M  | 6.0 μH ± 20%         | 8.0(6.6)                           | 6.7                          | 5.8     | 9.9                                   |
| CEP125NP-8R2M□   | 8R2M  | 8.2 μH ± 20%         | 11.4(9.5)                          | 5.8                          | 5.1     | 8.2                                   |
| CEP125NP-100M□   | 100M  | 10.0 μH ± 20%        | 13.5(11.2)                         | 5.0                          | 4.6     | 7.6                                   |

**2-High Power Type**

| Part Name<br>※    | Stamp | Inductance<br>100kHz | D.C.R. (mΩ)<br>Max.(Typ.)<br>( 20℃) | Saturation Current<br>(A) ※1 |         | Temperature<br>Rise current<br>(A) ※2 |
|-------------------|-------|----------------------|-------------------------------------|------------------------------|---------|---------------------------------------|
|                   |       |                      |                                     | ( 20℃)                       | ( 100℃) |                                       |
| CEP125NP-0R4N□-HD | 0R4ND | 0.47 μH ± 30%        | 1.5(1.2)                            | 28.8                         | 25.6    | 19.5                                  |
| CEP125NP-1R0M□-HD | 1R0MD | 1.0 μH ± 20%         | 2.2(1.8)                            | 20.0                         | 17.4    | 18.0                                  |
| CEP125NP-1R8M□-H  | 1R8MH | 1.8 μH ± 20%         | 3.4(2.8)                            | 15.3                         | 12.9    | 15.5                                  |
| CEP125NP-2R8M□-H  | 2R8MH | 2.8 μH ± 20%         | 5.4(4.5)                            | 12.3                         | 10.2    | 12.5                                  |
| CEP125NP-4R0M□-H  | 4R0MH | 4.0 μH ± 20%         | 8.0(6.6)                            | 10.3                         | 8.6     | 9.9                                   |
| CEP125NP-5R6M□-H  | 5R6MH | 5.6 μH ± 20%         | 11.4(9.5)                           | 8.8                          | 7.7     | 8.2                                   |
| CEP125NP-7R2M□-H  | 7R2MH | 7.2 μH ± 20%         | 13.5(11.2)                          | 7.8                          | 6.6     | 7.6                                   |

**3-Ultra Power Type**

| Part Name<br>※    | Stamp | Inductance<br>100kHz | D.C.R.(mΩ)<br>Max.(Typ.)<br>( 20℃) | Saturation Current<br>(A) ※1 |         | Temperature<br>Rise current<br>(A) ※2 |
|-------------------|-------|----------------------|------------------------------------|------------------------------|---------|---------------------------------------|
|                   |       |                      |                                    | ( 20℃)                       | ( 100℃) |                                       |
| CEP125NP-0R3N□-UD | 0R3ND | 0.35 μH ± 30%        | 1.5(1.2)                           | 35.0                         | 32.0    | 19.5                                  |
| CEP125NP-0R8N□-UD | 0R8ND | 0.8 μH ± 30%         | 2.2(1.8)                           | 25.7                         | 21.8    | 18.0                                  |
| CEP125NP-1R4M□-U  | 1R4MU | 1.4 μH ± 20%         | 3.4(2.8)                           | 19.2                         | 16.4    | 15.5                                  |
| CEP125NP-2R2M□-U  | 2R2MU | 2.2 μH ± 20%         | 5.4(4.5)                           | 14.8                         | 12.8    | 12.5                                  |
| CEP125NP-3R2M□-U  | 3R2MU | 3.2 μH ± 20%         | 8.0(6.6)                           | 12.8                         | 10.9    | 9.9                                   |
| CEP125NP-4R3M□-U  | 4R3MU | 4.3 μH ± 20%         | 11.4(9.5)                          | 11.0                         | 9.1     | 8.2                                   |
| CEP125NP-5R6M□-U  | 5R6MU | 5.6 μH ± 20%         | 13.5(11.2)                         | 9.5                          | 7.8     | 7.6                                   |

**Type: CEP125****※ Description of part name**

CEP125NP- 0R6N□-D/UD

— B Box

— C Carrier Tape

※1. Saturation current: The DC current at which the inductance decreases to 65%  
(for the inductance tolerance :  $\pm 30\%$ ) or 75% (for the inductance tolerance:  $\pm 20\%$ ) of its nominal.

※2. Temperature rise current: The DC current at which the temperature rise is  $\Delta t = 40^{\circ}\text{C}$  ( $T_a = 20^{\circ}\text{C}$ ).