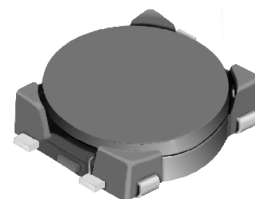
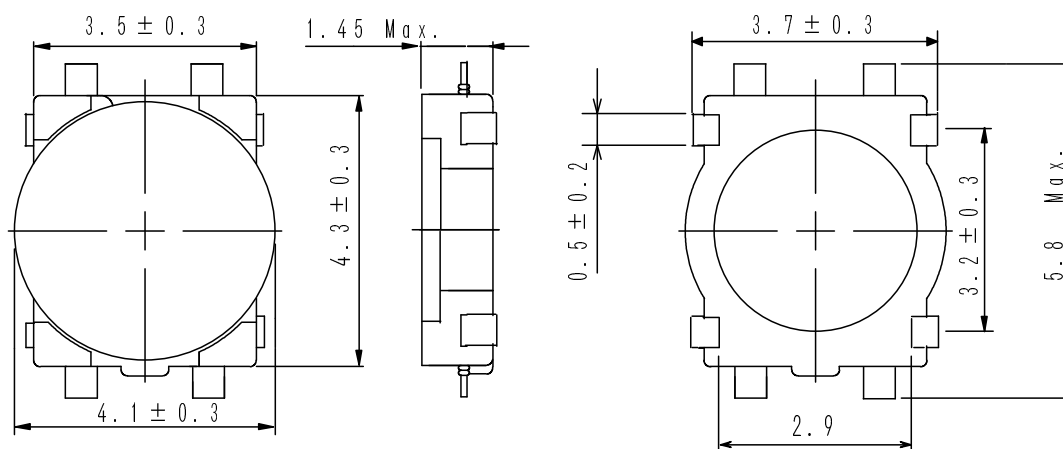
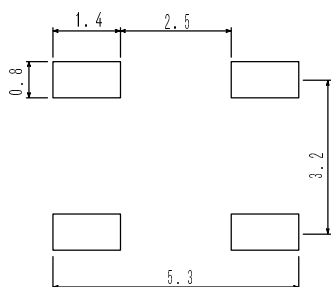
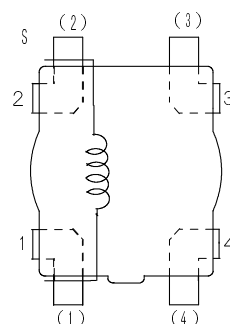


**Type: CMD4D13**
**◆ Product Description**

- $5.8 \times 4.4$  mm Max.(L×W), 1.45mm Max. Height.
- Inductance Range:  $3.3 \sim 150 \mu\text{H}$ .
- Rated current range: 130~850mA.
- 4 Terminal pins' type gives a flexible design as inductors or transformers(SEPIC,ZETA circuit).
- In addition to the standards versions used as power inductors shown here, custom designs as transformers(SEPIC,ZETA circuit) and inductors are also available.


**◆ Feature**

- Magnetically unshielded construction.
- Ideally used in portable devices such as Mobilephone, DSC/DVC, MP3, PDA, etc as DC-DC Converter inductors, specially suitable for White LED drive.
- RoHS Compliance.

**◆ Dimensions (mm)**

**◆ Land Pattern (mm)**

**◆ Schematics(Bottom)**


"S" is winding start.

**Type: CMD4D13**
**◆ Specification**

| Part No.<br>※   | Stamp | Inductance<br>( $\mu$ H)<br>100kHz/1V | D.C.R.(m $\Omega$ )<br>Max.(Typ.)<br>(at 20°C) | Saturation<br>Current (mA)<br>(at 20°C)※1 | Temperature<br>Rise current<br>(mA) ※2 |
|-----------------|-------|---------------------------------------|------------------------------------------------|-------------------------------------------|----------------------------------------|
| CMD4D13NP-3R3M□ | 3R3   | 3.3 $\pm$ 20%                         | 160(123)                                       | 1200                                      | 850                                    |
| CMD4D13NP-4R7M□ | 4R7   | 4.7 $\pm$ 20%                         | 194(149)                                       | 1000                                      | 800                                    |
| CMD4D13NP-6R8M□ | 6R8   | 6.8 $\pm$ 20%                         | 276(212)                                       | 810                                       | 650                                    |
| CMD4D13NP-100M□ | 100   | 10 $\pm$ 20%                          | 335(258)                                       | 710                                       | 570                                    |
| CMD4D13NP-150M□ | 150   | 15 $\pm$ 20%                          | 508(391)                                       | 580                                       | 450                                    |
| CMD4D13NP-220M□ | 220   | 22 $\pm$ 20%                          | 766(589)                                       | 480                                       | 370                                    |
| CMD4D13NP-330M□ | 330   | 33 $\pm$ 20%                          | 1162(894)                                      | 370                                       | 280                                    |
| CMD4D13NP-470M□ | 470   | 47 $\pm$ 20%                          | 1658(1326)                                     | 320                                       | 220                                    |
| CMD4D13NP-680M□ | 680   | 68 $\pm$ 20%                          | 2534(2027)                                     | 260                                       | 180                                    |
| CMD4D13NP-101M□ | 101   | 100 $\pm$ 20%                         | 3304(2643)                                     | 210                                       | 170                                    |
| CMD4D13NP-151M□ | 151   | 150 $\pm$ 20%                         | 5362(4290)                                     | 180                                       | 130                                    |

**※ Description of Part Name**

CMD4D13NP-3R3M□

— B Box  
 — C Carrier Tape

※1.Saturation current: The DC current at which the inductance decreases to 90% of it's initial value.

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

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[CMD4D13NP-100MC](#) [CMD4D13NP-3R3MC](#)