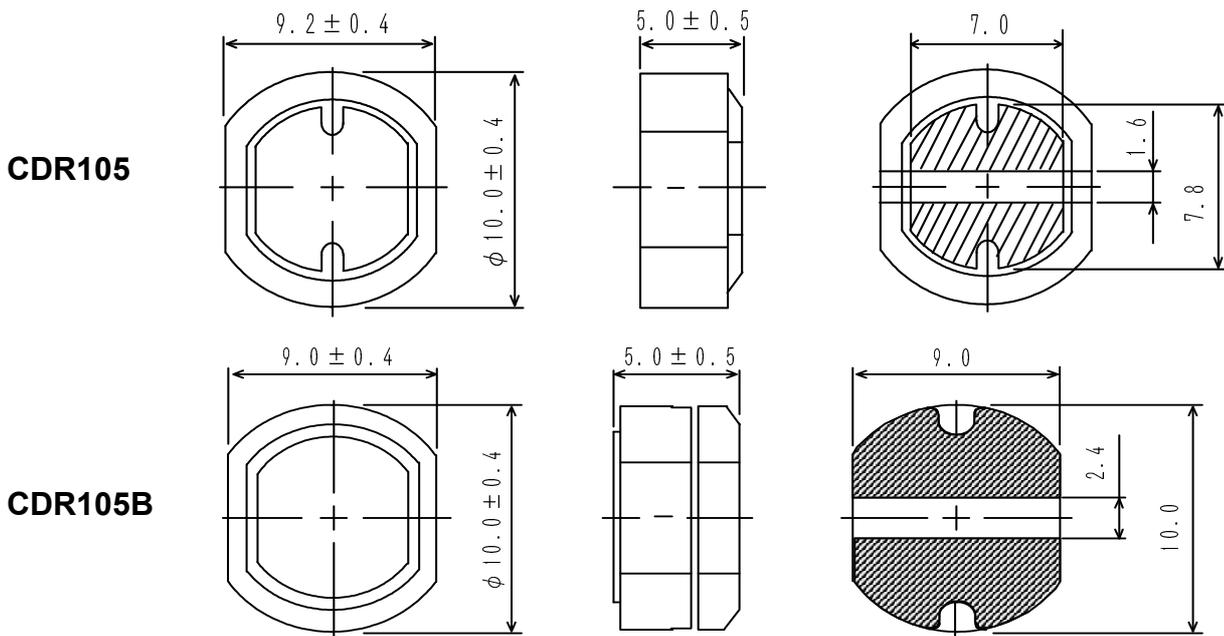
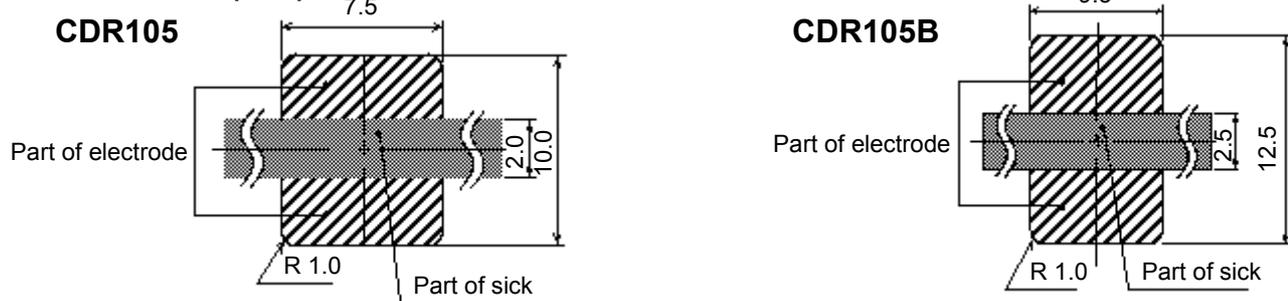


**Type: CDR105, CDR105B**
**◆ Product Description**

- 10.4 × 9.6mm Max.(L×W), 5.5mm Max. Height (CDR105)
- 10.4 × 9.4mm Max.(L×W), 5.5mm Max. Height (CDR105B)
- Inductance range: 10~470  $\mu$  H.
- Rated current range: 0.37~2.53A(CDR105) ; 0.33~2.06A(CDR105B)
- In addition to the standards versions shown here, custom inductors are also available to meet your exact requirements.


**◆ Feature**

- Magnetically shielded construction.
- Ideally used in Notebook PC ,LCD TV ,Game machine ,HDD,DSC/DVC, etc as DC-DC Converter inductors.
- RoHS Compliance.

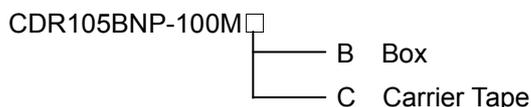
**◆ Dimensions (mm)**

**◆ Land Pattern (mm)**


**Type: CDR105,CDR105B**
**◆ Specification(CDR105)**

| Part name<br>※ | Stamp | Inductance (μH)<br>※ 1 | D.C.R.(Ω)<br>Max<br>(at 20°C) | Rated Current<br>(A) ※2-1 | S.R.F (MHZ)<br>[typ.] |
|----------------|-------|------------------------|-------------------------------|---------------------------|-----------------------|
| CDR105NP-100M□ | 100M  | +20%<br>10-15%         | 0.06                          | 2.53                      | 31                    |
| CDR105NP-120M□ | 120M  | +20%<br>12-15%         | 0.06                          | 2.31                      | 27                    |
| CDR105NP-150M□ | 150M  | +20%<br>15-15%         | 0.07                          | 2.06                      | 27                    |
| CDR105NP-180M□ | 180M  | +20%<br>18-15%         | 0.08                          | 1.89                      | 26                    |
| CDR105NP-220M□ | 220M  | +20%<br>22-15%         | 0.09                          | 1.71                      | 21                    |
| CDR105NP-270M□ | 270M  | +20%<br>27-15%         | 0.11                          | 1.54                      | 18                    |
| CDR105NP-330M□ | 330M  | +20%<br>33-15%         | 0.12                          | 1.39                      | 16                    |
| CDR105NP-390M□ | 390M  | +20%<br>39-15%         | 0.16                          | 1.28                      | 15                    |
| CDR105NP-470M□ | 470M  | +20%<br>47-15%         | 0.18                          | 1.17                      | 14                    |
| CDR105NP-560M□ | 560M  | +20%<br>56-15%         | 0.19                          | 1.07                      | 12                    |
| CDR105NP-680M□ | 680M  | +20%<br>68-15%         | 0.22                          | 0.97                      | 11                    |
| CDR105NP-820M□ | 820M  | +20%<br>82-15%         | 0.28                          | 0.88                      | 10                    |
| CDR105NP-101M□ | 101M  | +20%<br>100-15%        | 0.35                          | 0.80                      | 7.0                   |
| CDR105NP-121M□ | 121M  | +20%<br>120-15%        | 0.38                          | 0.73                      | 6.5                   |
| CDR105NP-151M□ | 151M  | +20%<br>150-15%        | 0.45                          | 0.65                      | 5.8                   |
| CDR105NP-181M□ | 181M  | +20%<br>180-15%        | 0.62                          | 0.60                      | 5.3                   |
| CDR105NP-221M□ | 221M  | +20%<br>220-15%        | 0.69                          | 0.54                      | 5.2                   |
| CDR105NP-271M□ | 271M  | +20%<br>270-15%        | 0.78                          | 0.49                      | 4.6                   |
| CDR105NP-331M□ | 331M  | +20%<br>330-15%        | 1.03                          | 0.44                      | 4.2                   |
| CDR105NP-391M□ | 391M  | +20%<br>390-15%        | 1.18                          | 0.41                      | 3.6                   |
| CDR105NP-471M□ | 471M  | +20%<br>470-15%        | 1.60                          | 0.37                      | 3.6                   |

**Type: CDR105,CDR105B**
**◆ Specification (CDR105B)**

| Part name<br>※  | Stamp | Inductance<br>( $\mu$ H) ※ 1 | D.C.R. ( $\Omega$ )<br>[MAX.]<br>(at 20°C) | Rated Current<br>(A) ※2-2 | S.R.F.(MHz)<br>[Ref.] |
|-----------------|-------|------------------------------|--|---------------------------|-----------------------|
| CDR105BNP-100M□ | 100   | 10±20%                       | 0.06                                       | 2.06                      | 29.1                  |
| CDR105BNP-120M□ | 120   | 12±20%                       | 0.07                                       | 1.94                      | 26.5                  |
| CDR105BNP-150M□ | 150   | 15±20%                       | 0.07                                       | 1.72                      | 24.2                  |
| CDR105BNP-180M□ | 180   | 18±20%                       | 0.08                                       | 1.58                      | 21.8                  |
| CDR105BNP-220M□ | 220   | 22±20%                       | 0.08                                       | 1.42                      | 18.8                  |
| CDR105BNP-270M□ | 270   | 27±20%                       | 0.10                                       | 1.32                      | 17.1                  |
| CDR105BNP-330L□ | 330   | 33±15%                       | 0.11                                       | 1.16                      | 14.2                  |
| CDR105BNP-390L□ | 390   | 39±15%                       | 0.12                                       | 1.10                      | 14.1                  |
| CDR105BNP-470L□ | 470   | 47±15%                       | 0.14                                       | 1.00                      | 11.5                  |
| CDR105BNP-560L□ | 560   | 56±15%                       | 0.19                                       | 0.93                      | 11.1                  |
| CDR105BNP-680L□ | 680   | 68±15%                       | 0.21                                       | 0.85                      | 10.2                  |
| CDR105BNP-820L□ | 820   | 82±15%                       | 0.28                                       | 0.79                      | 9.2                   |
| CDR105BNP-101K□ | 101   | 100±10%                      | 0.34                                       | 0.72                      | 8.1                   |
| CDR105BNP-121K□ | 121   | 120±10%                      | 0.37                                       | 0.63                      | 7.3                   |
| CDR105BNP-151K□ | 151   | 150±10%                      | 0.51                                       | 0.55                      | 6.2                   |
| CDR105BNP-181K□ | 181   | 180±10%                      | 0.57                                       | 0.50                      | 5.6                   |
| CDR105BNP-221K□ | 221   | 220±10%                      | 0.78                                       | 0.47                      | 5.4                   |
| CDR105BNP-271K□ | 271   | 270±10%                      | 0.87                                       | 0.41                      | 5.0                   |
| CDR105BNP-331K□ | 331   | 330±10%                      | 1.20                                       | 0.37                      | 4.2                   |
| CDR105BNP-391K□ | 391   | 390±10%                      | 1.34                                       | 0.35                      | 3.8                   |
| CDR105BNP-471K□ | 471   | 470±10%                      | 1.50                                       | 0.33                      | 3.5                   |

**※ Description of part name**


※1: Measuring frequency: 10  $\mu$  H ~ 82  $\mu$  H at 2.52 MHz;  
 100  $\mu$  H ~ 470  $\mu$  H at 1 kHz.

※2-1: Rated current: The D.C. current at which the inductance decreases to 80% of it's nominal value or when  $\Delta t=40^\circ\text{C}$ , whichever is lower( $T_a=20^\circ\text{C}$ ).

※2-2: Rated current: The D.C. current at which the inductance decreases to 90% of it's initial value or when  $\Delta t=40^\circ\text{C}$ , whichever is lower( $T_a=20^\circ\text{C}$ ).