

## Type: CDRR107

### ◆ Product Description

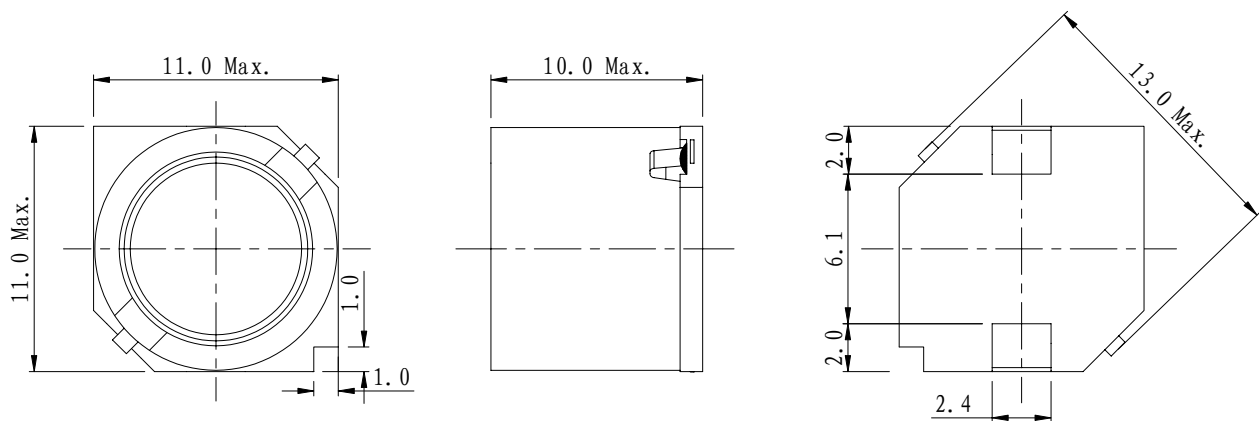
- 11.0×11.0mm Max. (L×W), 10 mm Max. Height.
- Inductance range: 100~1800  $\mu$  H.
- Rated current range: 0.3~1.23A.
- Custom design is available.



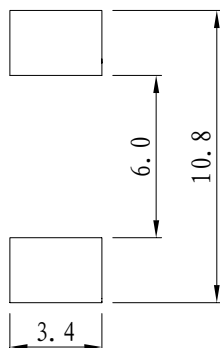
### ◆ Feature

- Magnetically shielded construction.
- Ideally used in Portable computers, Video recorder, DSC/DVC etc as DC-DC Converter inductors.
- RoHS Compliance.

### ◆ Dimensions (mm)



### ◆ Land Pattern (mm)



**Type: CDRR107**
**◆ Specification**

| Part Name       | Stamp | Inductance<br>( $\mu$ H)<br>100kHz/1V | D.C.R. ( $\Omega$ )<br>Max.(Typ.)<br>(at 20℃) | Saturation Current<br>(A) Max.(Typ.)※1 |            | Temperature<br>Rise<br>Current<br>(A)※2 |
|-----------------|-------|---------------------------------------|-----------------------------------------------|----------------------------------------|------------|-----------------------------------------|
|                 |       |                                       |                                               | (at 25℃)                               | (at 125℃)  |                                         |
| CDRR107NP-101MC | 101   | 100 $\pm$ 20%                         | 0.19(0.15)                                    | 1.23(1.54)                             | 0.85(1.06) | 1.40(1.60)                              |
| CDRR107NP-121MC | 121   | 120 $\pm$ 20%                         | 0.20(0.16)                                    | 1.14(1.43)                             | 0.72(0.90) | 1.34(1.52)                              |
| CDRR107NP-151MC | 151   | 150 $\pm$ 20%                         | 0.22(0.18)                                    | 1.02(1.28)                             | 0.67(0.84) | 1.26(1.44)                              |
| CDRR107NP-181MC | 181   | 180 $\pm$ 20%                         | 0.25(0.20)                                    | 0.94(1.18)                             | 0.65(0.81) | 1.16(1.33)                              |
| CDRR107NP-221MC | 221   | 220 $\pm$ 20%                         | 0.27(0.22)                                    | 0.86(1.07)                             | 0.58(0.71) | 0.98(1.12)                              |
| CDRR107NP-271MC | 271   | 270 $\pm$ 20%                         | 0.39(0.31)                                    | 0.78(0.97)                             | 0.53(0.66) | 0.89(1.01)                              |
| CDRR107NP-331MC | 331   | 330 $\pm$ 20%                         | 0.49(0.39)                                    | 0.72(0.90)                             | 0.46(0.58) | 0.81(0.92)                              |
| CDRR107NP-391MC | 391   | 390 $\pm$ 20%                         | 0.54(0.43)                                    | 0.66(0.82)                             | 0.44(0.55) | 0.80(0.91)                              |
| CDRR107NP-471MC | 471   | 470 $\pm$ 20%                         | 0.68(0.55)                                    | 0.58(0.73)                             | 0.40(0.50) | 0.68(0.77)                              |
| CDRR107NP-561MC | 561   | 560 $\pm$ 20%                         | 0.86(0.69)                                    | 0.52(0.65)                             | 0.36(0.45) | 0.60(0.69)                              |
| CDRR107NP-681MC | 681   | 680 $\pm$ 20%                         | 1.0(0.80)                                     | 0.47(0.59)                             | 0.34(0.42) | 0.59(0.67)                              |
| CDRR107NP-821MC | 821   | 820 $\pm$ 20%                         | 1.10(0.89)                                    | 0.45(0.56)                             | 0.30(0.38) | 0.55(0.63)                              |
| CDRR107NP-102MC | 102   | 1000 $\pm$ 20%                        | 1.43(1.15)                                    | 0.40(0.50)                             | 0.28(0.36) | 0.47(0.53)                              |
| CDRR107NP-122MC | 122   | 1200 $\pm$ 20%                        | 1.60(1.25)                                    | 0.37(0.47)                             | 0.25(0.32) | 0.44(0.50)                              |
| CDRR107NP-152MC | 152   | 1500 $\pm$ 20%                        | 2.10(1.70)                                    | 0.34(0.42)                             | 0.20(0.25) | 0.38(0.43)                              |
| CDRR107NP-182MC | 182   | 1800 $\pm$ 20%                        | 2.30(1.90)                                    | 0.30(0.37)                             | 0.20(0.25) | 0.34(0.40)                              |

※1.Saturation Current: The DC current at which the inductance decreases by 30% from its initial value.

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