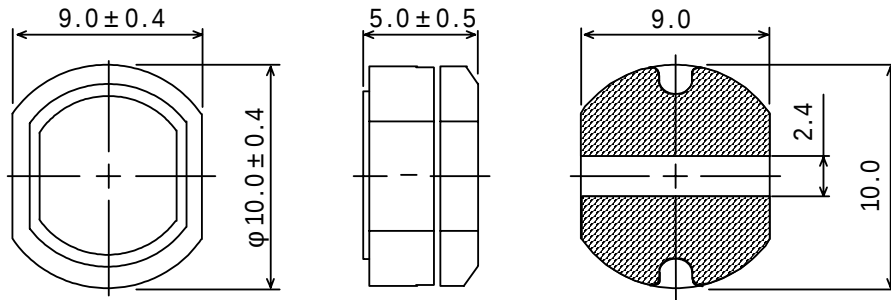


# 仕様書

|         |
|---------|
| 形 名     |
| CDR105B |

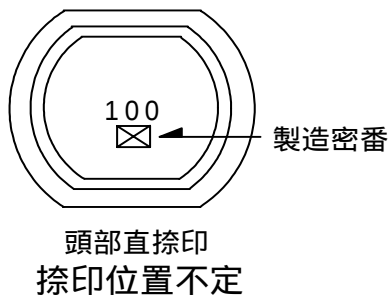
## 1. 外形

### 1-1. 寸法図(mm)

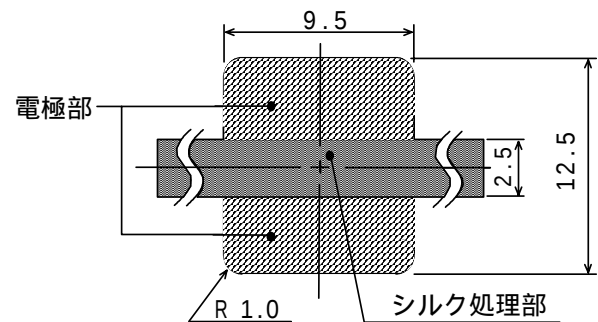


\* 公差のない寸法は参考値とする

### 1-2. 捺印表示例



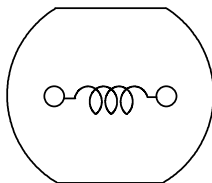
### 1-3. 推奨ランド寸法(mm)



電極(端子)間の隙間はシルク処理をして御使用下さい。

## 2. コイル仕様

### 2-1. 端子接続図(裏面図)



RoHS

compliance

Cd:Max.0.01wt%

others:Max.0.1wt%



# 仕 様 書

|         |
|---------|
| 形 名     |
| CDR105B |

## 2-2. 電気的特性

| No. | 品 名             | 表示  | インダクタンス<br>[以内]<br>1 | D.C.R.(Ω)<br>[以下]<br>(at 20 ) | 定格電流<br>(A)<br>2 | S . R . F .<br>(MHz)<br>[参考値] | スミダ<br>コード |
|-----|-----------------|-----|----------------------|-------------------------------|------------------|-------------------------------|------------|
| 01  | CDR105BNP-100MC | 100 | 10 μH ± 20%          | 0.06                          | 2.06             | 29.1                          | -0093      |
| 02  | CDR105BNP-100MB |     |                      |                               |                  |                               | -0094      |
| 03  | CDR105BNP-120MC | 120 | 12 μH ± 20%          | 0.07                          | 1.94             | 26.5                          | -0095      |
| 04  | CDR105BNP-120MB |     |                      |                               |                  |                               | -0096      |
| 05  | CDR105BNP-150MC | 150 | 15 μH ± 20%          | 0.07                          | 1.72             | 24.2                          | -0097      |
| 06  | CDR105BNP-150MB |     |                      |                               |                  |                               | -0098      |
| 07  | CDR105BNP-180MC | 180 | 18 μH ± 20%          | 0.08                          | 1.58             | 21.8                          | -0101      |
| 08  | CDR105BNP-180MB |     |                      |                               |                  |                               | -0102      |
| 09  | CDR105BNP-220MC | 220 | 22 μH ± 20%          | 0.08                          | 1.42             | 18.8                          | -0103      |
| 10  | CDR105BNP-220MB |     |                      |                               |                  |                               | -0104      |
| 11  | CDR105BNP-270MC | 270 | 27 μH ± 20%          | 0.10                          | 1.32             | 17.1                          | -0105      |
| 12  | CDR105BNP-270MB |     |                      |                               |                  |                               | -0106      |
| 13  | CDR105BNP-330LC | 330 | 33 μH ± 15%          | 0.11                          | 1.16             | 14.2                          | -0107      |
| 14  | CDR105BNP-330LB |     |                      |                               |                  |                               | -0108      |
| 15  | CDR105BNP-390LC | 390 | 39 μH ± 15%          | 0.12                          | 1.10             | 14.1                          | -0109      |
| 16  | CDR105BNP-390LB |     |                      |                               |                  |                               | -0110      |
| 17  | CDR105BNP-470LC | 470 | 47 μH ± 15%          | 0.14                          | 1.00             | 11.5                          | -0112      |
| 18  | CDR105BNP-470LB |     |                      |                               |                  |                               | -0113      |
| 19  | CDR105BNP-560LC | 560 | 56 μH ± 15%          | 0.19                          | 0.93             | 11.1                          | -0114      |
| 20  | CDR105BNP-560LB |     |                      |                               |                  |                               | -0115      |
| 21  | CDR105BNP-680LC | 680 | 68 μH ± 15%          | 0.21                          | 0.85             | 10.2                          | -0116      |
| 22  | CDR105BNP-680LB |     |                      |                               |                  |                               | -0117      |
| 23  | CDR105BNP-820LC | 820 | 82 μH ± 15%          | 0.28                          | 0.79             | 9.2                           | -0118      |
| 24  | CDR105BNP-820LB |     |                      |                               |                  |                               | -0119      |

## 仕 様 書

形 名

C D R 1 0 5 B

| No. | 品 名             | 表示  | インダクタンス<br>[以内]<br>1  | D . C . R . ( $\Omega$ )<br>[以下]<br>(at 20 ) | 定格電流<br>( A )<br>2 | S . R . F .<br>(MHz)<br>[参考値] | スミダ<br>コード |
|-----|-----------------|-----|-----------------------|----------------------------------------------|--------------------|-------------------------------|------------|
| 25  | CDR105BNP-101KC | 101 | 100 $\mu$ H $\pm$ 10% | 0.34                                         | 0.72               | 8.1                           | -0120      |
| 26  | CDR105BNP-101KB |     |                       |                                              |                    |                               | -0121      |
| 27  | CDR105BNP-121KC | 121 | 120 $\mu$ H $\pm$ 10% | 0.37                                         | 0.63               | 7.3                           | -0123      |
| 28  | CDR105BNP-121KB |     |                       |                                              |                    |                               | -0124      |
| 29  | CDR105BNP-151KC | 151 | 150 $\mu$ H $\pm$ 10% | 0.51                                         | 0.55               | 6.2                           | -0125      |
| 30  | CDR105BNP-151KB |     |                       |                                              |                    |                               | -0126      |
| 31  | CDR105BNP-181KC | 181 | 180 $\mu$ H $\pm$ 10% | 0.57                                         | 0.50               | 5.6                           | -0127      |
| 32  | CDR105BNP-181KB |     |                       |                                              |                    |                               | -0128      |
| 33  | CDR105BNP-221KC | 221 | 220 $\mu$ H $\pm$ 10% | 0.78                                         | 0.47               | 5.4                           | -0129      |
| 34  | CDR105BNP-221KB |     |                       |                                              |                    |                               | -0130      |
| 35  | CDR105BNP-271KC | 271 | 270 $\mu$ H $\pm$ 10% | 0.87                                         | 0.41               | 5.0                           | -0131      |
| 36  | CDR105BNP-271KB |     |                       |                                              |                    |                               | -0132      |
| 37  | CDR105BNP-331KC | 331 | 330 $\mu$ H $\pm$ 10% | 1.20                                         | 0.37               | 4.2                           | -0134      |
| 38  | CDR105BNP-331KB |     |                       |                                              |                    |                               | -0135      |
| 39  | CDR105BNP-391KC | 391 | 390 $\mu$ H $\pm$ 10% | 1.34                                         | 0.35               | 3.8                           | -0136      |
| 40  | CDR105BNP-391KB |     |                       |                                              |                    |                               | -0137      |
| 41  | CDR105BNP-471KC | 471 | 470 $\mu$ H $\pm$ 10% | 1.50                                         | 0.33               | 3.5                           | -0138      |
| 42  | CDR105BNP-471KB |     |                       |                                              |                    |                               | -0139      |

## \* 品名表示の区分

(1) リール梱包の場合: CDR105BNP-XXXXC

(2) 箱梱包の場合: CDR105BNP-XXXXB

1: 測定周波数 L 10  $\mu$  H  $\sim$  82  $\mu$  H ; at 2.52 MHz  
 100  $\mu$  H  $\sim$  470  $\mu$  H ; at 1 kHz

2: 定格電流は直流重畳特性に於て、インダクタンスが初期値より - 10%となる電流、もしくは直流電流を流した時のコイルの発熱が  $t = 40$  となる電流値の少ない方の値。(Ta=20 を基準とする。)

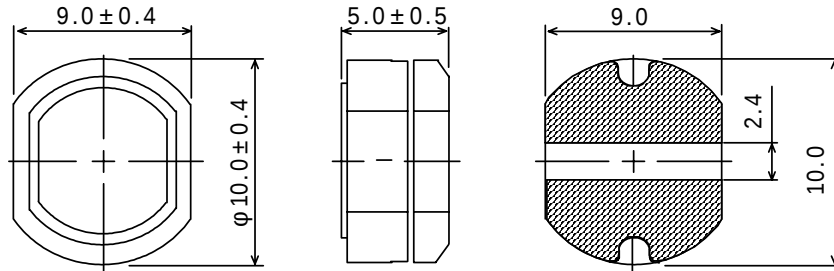
3. 保存温度範囲 - 40  $\sim$  + 100  
 使用温度範囲 - 40  $\sim$  + 100 (コイルの発熱を含む。)

# SPECIFICATION

TYPE  
CDR105B

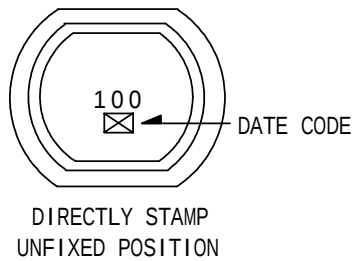
## 1. APPEARANCE

### 1-1. DIMENSIONS(mm)

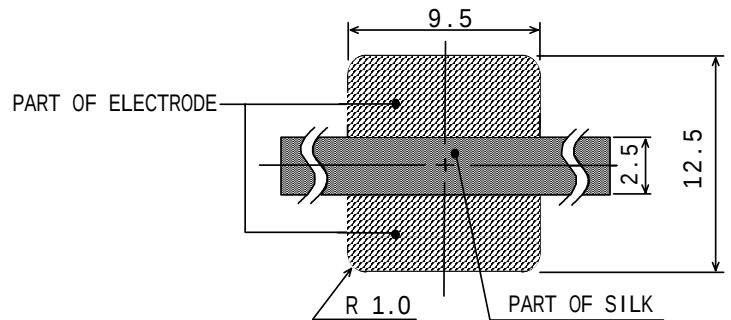


\* DIMENSIONS WITHOUT TOLERANCE ARE APPROX.

### 1-2. STAMP (E.G.)



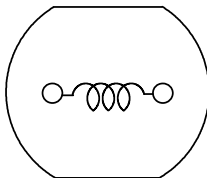
### 1-3. RECOMMENDED LAND PATTERNS DIMENSION(mm)



PLEASE COAT WITH SILK SCREEN BETWEEN THE TWO ELECTRODES.

## 2. COIL SPECIFICATION

### 2-1. CONNECTION (BOTTOM VIEW)



RoHS

compliance

Cd: Max. 0.01wt%

others: Max. 0.1wt%



# SPECIFICATION

TYPE  
CDR105B

## 2-2. ELECTRICAL CHARACTERISTICS

| NO. | PART NO.        | STAMP | INDUCTANCE<br>[WITHIN]<br>1 | D.C.R.<br>( $\Omega$ ) [MAX.]<br>(at 20 °C) | RATED<br>CURRENT<br>(A)<br>2 | S.R.F.<br>(MHz)<br>[Ref.] | SUMIDA<br>CODE |
|-----|-----------------|-------|-----------------------------|---------------------------------------------|------------------------------|---------------------------|----------------|
| 01  | CDR105BNP-100MC | 100   | 10 $\mu$ H $\pm$ 20%        | 0.06                                        | 2.06                         | 29.1                      | -0093          |
| 02  | CDR105BNP-100MB |       |                             |                                             |                              |                           | -0094          |
| 03  | CDR105BNP-120MC | 120   | 12 $\mu$ H $\pm$ 20%        | 0.07                                        | 1.94                         | 26.5                      | -0095          |
| 04  | CDR105BNP-120MB |       |                             |                                             |                              |                           | -0096          |
| 05  | CDR105BNP-150MC | 150   | 15 $\mu$ H $\pm$ 20%        | 0.07                                        | 1.72                         | 24.2                      | -0097          |
| 06  | CDR105BNP-150MB |       |                             |                                             |                              |                           | -0098          |
| 07  | CDR105BNP-180MC | 180   | 18 $\mu$ H $\pm$ 20%        | 0.08                                        | 1.58                         | 21.8                      | -0101          |
| 08  | CDR105BNP-180MB |       |                             |                                             |                              |                           | -0102          |
| 09  | CDR105BNP-220MC | 220   | 22 $\mu$ H $\pm$ 20%        | 0.08                                        | 1.42                         | 18.8                      | -0103          |
| 10  | CDR105BNP-220MB |       |                             |                                             |                              |                           | -0104          |
| 11  | CDR105BNP-270MC | 270   | 27 $\mu$ H $\pm$ 20%        | 0.10                                        | 1.32                         | 17.1                      | -0105          |
| 12  | CDR105BNP-270MB |       |                             |                                             |                              |                           | -0106          |
| 13  | CDR105BNP-330LC | 330   | 33 $\mu$ H $\pm$ 15%        | 0.11                                        | 1.16                         | 14.2                      | -0107          |
| 14  | CDR105BNP-330LB |       |                             |                                             |                              |                           | -0108          |
| 15  | CDR105BNP-390LC | 390   | 39 $\mu$ H $\pm$ 15%        | 0.12                                        | 1.10                         | 14.1                      | -0109          |
| 16  | CDR105BNP-390LB |       |                             |                                             |                              |                           | -0110          |
| 17  | CDR105BNP-470LC | 470   | 47 $\mu$ H $\pm$ 15%        | 0.14                                        | 1.00                         | 11.5                      | -0112          |
| 18  | CDR105BNP-470LB |       |                             |                                             |                              |                           | -0113          |
| 19  | CDR105BNP-560LC | 560   | 56 $\mu$ H $\pm$ 15%        | 0.19                                        | 0.93                         | 11.1                      | -0114          |
| 20  | CDR105BNP-560LB |       |                             |                                             |                              |                           | -0115          |
| 21  | CDR105BNP-680LC | 680   | 68 $\mu$ H $\pm$ 15%        | 0.21                                        | 0.85                         | 10.2                      | -0116          |
| 22  | CDR105BNP-680LB |       |                             |                                             |                              |                           | -0117          |
| 23  | CDR105BNP-820LC | 820   | 82 $\mu$ H $\pm$ 15%        | 0.28                                        | 0.79                         | 9.2                       | -0118          |
| 24  | CDR105BNP-820LB |       |                             |                                             |                              |                           | -0119          |

# SPECIFICATION

TYPE  
CDR105B

| NO. | PART NO.        | STAMP | INDUCTANCE<br>[WITHIN]<br>1 | D.C.R.<br>( $\Omega$ ) [MAX.]<br>(at 20 ) | RATED<br>CURRENT<br>(A) 2 | S.R.F.<br>(MHz)<br>[Ref.] | SUMIDA<br>CODE |
|-----|-----------------|-------|-----------------------------|-------------------------------------------|---------------------------|---------------------------|----------------|
| 25  | CDR105BNP-101KC | 101   | 100 $\mu$ H $\pm$ 10%       | 0.34                                      | 0.72                      | 8.1                       | -0120          |
| 26  | CDR105BNP-101KB |       |                             |                                           |                           |                           | -0121          |
| 27  | CDR105BNP-121KC | 121   | 120 $\mu$ H $\pm$ 10%       | 0.37                                      | 0.63                      | 7.3                       | -0123          |
| 28  | CDR105BNP-121KB |       |                             |                                           |                           |                           | -0124          |
| 29  | CDR105BNP-151KC | 151   | 150 $\mu$ H $\pm$ 10%       | 0.51                                      | 0.55                      | 6.2                       | -0125          |
| 30  | CDR105BNP-151KB |       |                             |                                           |                           |                           | -0126          |
| 31  | CDR105BNP-181KC | 181   | 180 $\mu$ H $\pm$ 10%       | 0.57                                      | 0.50                      | 5.6                       | -0127          |
| 32  | CDR105BNP-181KB |       |                             |                                           |                           |                           | -0128          |
| 33  | CDR105BNP-221KC | 221   | 220 $\mu$ H $\pm$ 10%       | 0.78                                      | 0.47                      | 5.4                       | -0129          |
| 34  | CDR105BNP-221KB |       |                             |                                           |                           |                           | -0130          |
| 35  | CDR105BNP-271KC | 271   | 270 $\mu$ H $\pm$ 10%       | 0.87                                      | 0.41                      | 5.0                       | -0131          |
| 36  | CDR105BNP-271KB |       |                             |                                           |                           |                           | -0132          |
| 37  | CDR105BNP-331KC | 331   | 330 $\mu$ H $\pm$ 10%       | 1.20                                      | 0.37                      | 4.2                       | -0134          |
| 38  | CDR105BNP-331KB |       |                             |                                           |                           |                           | -0135          |
| 39  | CDR105BNP-391KC | 391   | 390 $\mu$ H $\pm$ 10%       | 1.34                                      | 0.35                      | 3.8                       | -0136          |
| 40  | CDR105BNP-391KB |       |                             |                                           |                           |                           | -0137          |
| 41  | CDR105BNP-471KC | 471   | 470 $\mu$ H $\pm$ 10%       | 1.50                                      | 0.33                      | 3.5                       | -0138          |
| 42  | CDR105BNP-471KB |       |                             |                                           |                           |                           | -0139          |

\* PART NO. DESCRIPTION

- (1) IN CASE OF REEL PACKING: CDR105BNP-XXXXC  
(2) IN CASE OF BOX PACKING: CDR105BNP-XXXXB

1: MEASURED FREQUENCY L 10  $\mu$ H ~ 82  $\mu$ H ; at 2.52 MHz  
100  $\mu$ H ~ 470  $\mu$ H ; at 1 kHz

2: THIS INDICATES THE VALUE OF CURRENT WHEN THE INDUCTANCE IS 10% LOWER THAN ITS INITIAL VALUE  
AT D.C. SUPERPOSITION OR D.C. CURRENT WHEN  $\Delta T=40$  WHICHEVER IS LOWER. ( $T_a=20$  )

3. STORAGE TEMPERATURE RANGE : - 40 ~ + 100  
OPERATING TEMPERATURE RANGE: - 40 ~ + 100 (INCLUDING COIL'S SELF TEMPERATURE RISE)