

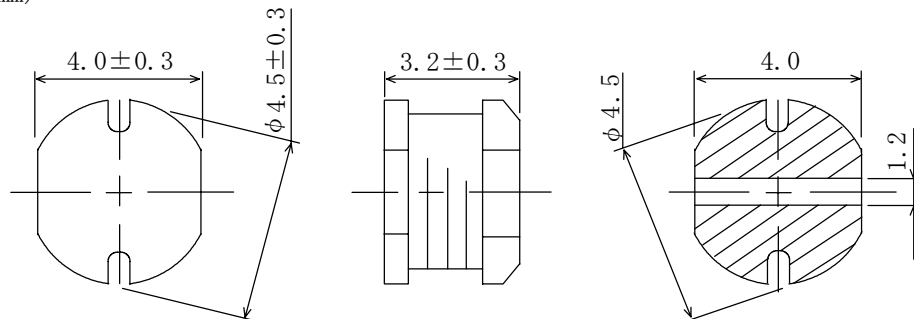
# 仕 様 書

形 名

CD 4 3

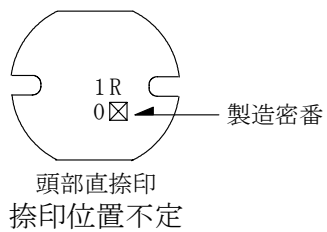
## 1. 外形

### 1-1. 寸法図 (mm)

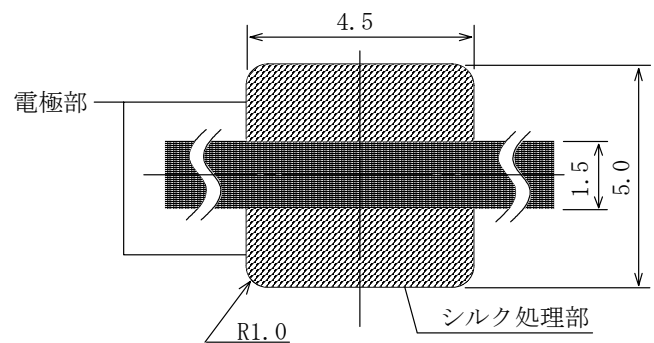


\* 公差のない寸法は、参考値とする。

### 1-2. 捺印表示例



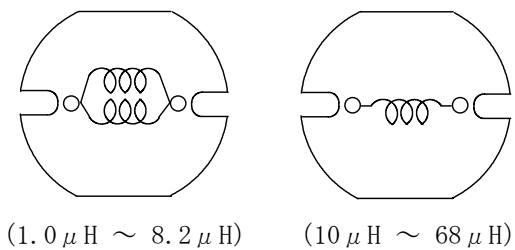
### 1-3. 推奨ランド寸法 (mm)



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 | CD 4 3 |
|-----|--------|

## 2-2. 電氣的特性 I (リール梱包の場合)

| NO. | 品 名          | 表示  | インダクタンス<br>[以内]<br>※1 | D. C. R.<br>(mΩ)<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  | CD43NP-1R0MC | 1R0 | 1.0 μH±20%            | 48.7                                 | 2.70              | 113.8                      | -0289      |
| 02  | CD43NP-1R4MC | 1R4 | 1.4 μH±20%            | 56.2                                 | 2.50              | 101.0                      | -0290      |
| 03  | CD43NP-1R8MC | 1R8 | 1.8 μH±20%            | 63.7                                 | 2.33              | 92.0                       | -0291      |
| 04  | CD43NP-2R2MC | 2R2 | 2.2 μH±20%            | 71.2                                 | 2.25              | 76.3                       | -0292      |
| 05  | CD43NP-2R7MC | 2R7 | 2.7 μH±20%            | 78.7                                 | 2.16              | 66.6                       | -0293      |
| 06  | CD43NP-3R3MC | 3R3 | 3.3 μH±20%            | 86.2                                 | 2.00              | 63.8                       | -0295      |
| 07  | CD43NP-3R9MC | 3R9 | 3.9 μH±20%            | 93.7                                 | 1.84              | 53.8                       | -0296      |
| 08  | CD43NP-4R7MC | 4R7 | 4.7 μH±20%            | 108.7                                | 1.62              | 49.5                       | -0297      |
| 09  | CD43NP-5R6MC | 5R6 | 5.6 μH±20%            | 125.7                                | 1.48              | 43.2                       | -0298      |
| 10  | CD43NP-6R8MC | 6R8 | 6.8 μH±20%            | 131.2                                | 1.43              | 41.4                       | -0299      |
| 11  | CD43NP-8R2MC | 8R2 | 8.2 μH±20%            | 146.2                                | 1.37              | 35.8                       | -0300      |
| 12  | CD43NP-100MC | 100 | 10 μH±20%             | 182                                  | 1.04              | 35.8                       | -0301      |
| 13  | CD43NP-120MC | 120 | 12 μH±20%             | 210                                  | 0.97              | 32.4                       | -0302      |
| 14  | CD43NP-150MC | 150 | 15 μH±20%             | 235                                  | 0.85              | 29.3                       | -0303      |
| 15  | CD43NP-180MC | 180 | 18 μH±20%             | 338                                  | 0.74              | 27.5                       | -0304      |
| 16  | CD43NP-220MC | 220 | 22 μH±20%             | 378                                  | 0.68              | 24.7                       | -0306      |
| 17  | CD43NP-270MC | 270 | 27 μH±20%             | 522                                  | 0.62              | 21.7                       | -0307      |
| 18  | CD43NP-330KC | 330 | 33 μH±10%             | 540                                  | 0.56              | 19.6                       | -0308      |
| 19  | CD43NP-390KC | 390 | 39 μH±10%             | 587                                  | 0.52              | 18.0                       | -0309      |
| 20  | CD43NP-470KC | 470 | 47 μH±10%             | 844                                  | 0.44              | 15.6                       | -0310      |
| 21  | CD43NP-560KC | 560 | 56 μH±10%             | 937                                  | 0.42              | 14.8                       | -0311      |
| 22  | CD43NP-680KC | 680 | 68 μH±10%             | 1117                                 | 0.37              | 13.2                       | -0312      |

# 仕 様 書

|     |        |
|-----|--------|
| 形 名 | CD 4 3 |
|-----|--------|

## 2-3. 電気的特性 II (箱梱包の場合)

| NO. | 品 名          | 表示  | インダクタンス<br>[以内]<br>※1 | D. C. R.<br>(mΩ)<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 |
|-----|--------------|-----|-----------------------|--------------------------------------|-------------------|----------------------------|------------|
| 23  | CD43NP-1R0MB | 1R0 | 1.0 μH ± 20%          | 48.7                                 | 2.70              | 113.8                      | -0313      |
| 24  | CD43NP-1R4MB | 1R4 | 1.4 μH ± 20%          | 56.2                                 | 2.50              | 101.0                      | -0314      |
| 25  | CD43NP-1R8MB | 1R8 | 1.8 μH ± 20%          | 63.7                                 | 2.33              | 92.0                       | -0315      |
| 26  | CD43NP-2R2MB | 2R2 | 2.2 μH ± 20%          | 71.2                                 | 2.25              | 76.3                       | -0317      |
| 27  | CD43NP-2R7MB | 2R7 | 2.7 μH ± 20%          | 78.7                                 | 2.16              | 66.6                       | -0318      |
| 28  | CD43NP-3R3MB | 3R3 | 3.3 μH ± 20%          | 86.2                                 | 2.00              | 63.8                       | -0319      |
| 29  | CD43NP-3R9MB | 3R9 | 3.9 μH ± 20%          | 93.7                                 | 1.84              | 53.8                       | -0320      |
| 30  | CD43NP-4R7MB | 4R7 | 4.7 μH ± 20%          | 108.7                                | 1.62              | 49.5                       | -0321      |
| 31  | CD43NP-5R6MB | 5R6 | 5.6 μH ± 20%          | 125.7                                | 1.48              | 43.2                       | -0322      |
| 32  | CD43NP-6R8MB | 6R8 | 6.8 μH ± 20%          | 131.2                                | 1.43              | 41.4                       | -0323      |
| 33  | CD43NP-8R2MB | 8R2 | 8.2 μH ± 20%          | 146.2                                | 1.37              | 35.8                       | -0324      |
| 34  | CD43NP-100MB | 100 | 10 μH ± 20%           | 182                                  | 1.04              | 35.8                       | -0325      |
| 35  | CD43NP-120MB | 120 | 12 μH ± 20%           | 210                                  | 0.97              | 32.4                       | -0326      |
| 36  | CD43NP-150MB | 150 | 15 μH ± 20%           | 235                                  | 0.85              | 29.3                       | -0328      |
| 37  | CD43NP-180MB | 180 | 18 μH ± 20%           | 338                                  | 0.74              | 27.5                       | -0329      |
| 38  | CD43NP-220MB | 220 | 22 μH ± 20%           | 378                                  | 0.68              | 24.7                       | -0330      |
| 39  | CD43NP-270MB | 270 | 27 μH ± 20%           | 522                                  | 0.62              | 21.7                       | -0331      |
| 40  | CD43NP-330KB | 330 | 33 μH ± 10%           | 540                                  | 0.56              | 19.6                       | -0332      |
| 41  | CD43NP-390KB | 390 | 39 μH ± 10%           | 587                                  | 0.52              | 18.0                       | -0333      |
| 42  | CD43NP-470KB | 470 | 47 μH ± 10%           | 844                                  | 0.44              | 15.6                       | -0334      |
| 43  | CD43NP-560KB | 560 | 56 μH ± 10%           | 937                                  | 0.42              | 14.8                       | -0335      |
| 44  | CD43NP-680KB | 680 | 68 μH ± 10%           | 1117                                 | 0.37              | 13.2                       | -0336      |

※1：測定周波数 L 1.0 μH ~ 8.2 μH ; at 7.96 MHz  
10 μH ~ 68 μH ; at 2.52 MHz

※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Δt=40℃となる電流値の少ない方の値。(Ta=20℃を基準とする。)

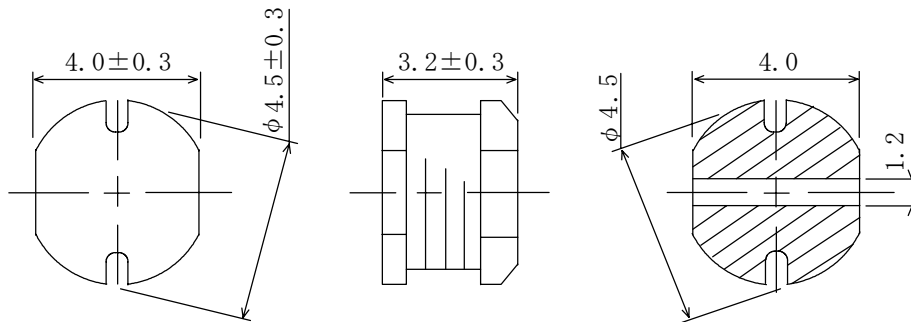
3. 保存温度範囲 -40℃ ~ +100℃  
使用温度範囲 -40℃ ~ +100℃ (コイルの発熱を含む。)

# SPECIFICATION

TYPE  
CD 4 3

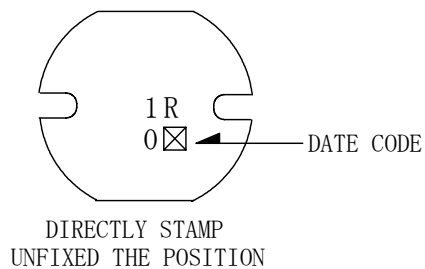
## 1. APPEARANCE

### 1-1. DIMENSIONS (mm)

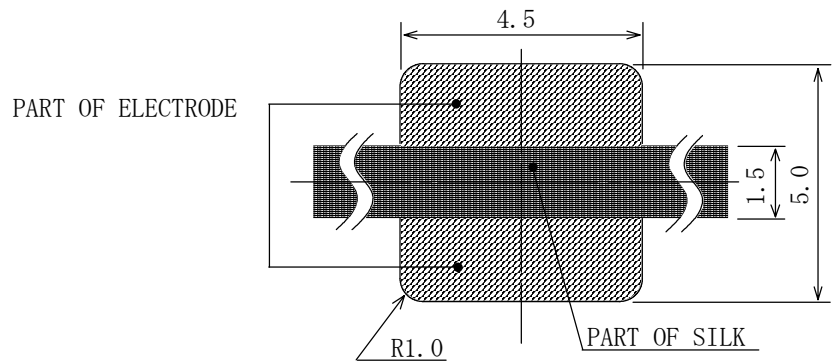


\* DIMENSIONS WITHOUT TOLERANCE ARE APPROX.

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



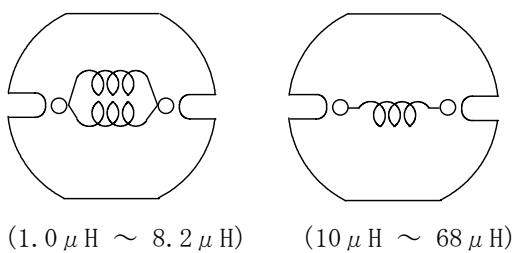
### 1-3. RECOMMENDED LAND PATTERNS DIMENSIONS (mm)



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  
CD 4 3

## 2-2. ELECTRICAL CHARACTERISTICS I (IN THE CASE OF REEL)

| NO. | PART NAME    | STAMP | INDUCTANCE<br>[WITHIN]<br>※ 1 | D. C. R.<br>(mΩ)<br>[MAX. ]<br>(at 20℃) | RATED<br>CURRENT<br>(A)<br>※2 | S. R. F.<br>(MHz)<br>[TYP. ] | SUMIDA<br>CODE |
|-----|--------------|-------|-------------------------------|-----------------------------------------|-------------------------------|------------------------------|----------------|
| 01  | CD43NP-1R0MC | 1R0   | 1.0 μH±20%                    | 48.7                                    | 2.70                          | 113.8                        | -0289          |
| 02  | CD43NP-1R4MC | 1R4   | 1.4 μH±20%                    | 56.2                                    | 2.50                          | 101.0                        | -0290          |
| 03  | CD43NP-1R8MC | 1R8   | 1.8 μH±20%                    | 63.7                                    | 2.33                          | 92.0                         | -0291          |
| 04  | CD43NP-2R2MC | 2R2   | 2.2 μH±20%                    | 71.2                                    | 2.25                          | 76.3                         | -0292          |
| 05  | CD43NP-2R7MC | 2R7   | 2.7 μH±20%                    | 78.7                                    | 2.16                          | 66.6                         | -0293          |
| 06  | CD43NP-3R3MC | 3R3   | 3.3 μH±20%                    | 86.2                                    | 2.00                          | 63.8                         | -0295          |
| 07  | CD43NP-3R9MC | 3R9   | 3.9 μH±20%                    | 93.7                                    | 1.84                          | 53.8                         | -0296          |
| 08  | CD43NP-4R7MC | 4R7   | 4.7 μH±20%                    | 108.7                                   | 1.62                          | 49.5                         | -0297          |
| 09  | CD43NP-5R6MC | 5R6   | 5.6 μH±20%                    | 125.7                                   | 1.48                          | 43.2                         | -0298          |
| 10  | CD43NP-6R8MC | 6R8   | 6.8 μH±20%                    | 131.2                                   | 1.43                          | 41.4                         | -0299          |
| 11  | CD43NP-8R2MC | 8R2   | 8.2 μH±20%                    | 146.2                                   | 1.37                          | 35.8                         | -0300          |
| 12  | CD43NP-100MC | 100   | 10 μH±20%                     | 182                                     | 1.04                          | 35.8                         | -0301          |
| 13  | CD43NP-120MC | 120   | 12 μH±20%                     | 210                                     | 0.97                          | 32.4                         | -0302          |
| 14  | CD43NP-150MC | 150   | 15 μH±20%                     | 235                                     | 0.85                          | 29.3                         | -0303          |
| 15  | CD43NP-180MC | 180   | 18 μH±20%                     | 338                                     | 0.74                          | 27.5                         | -0304          |
| 16  | CD43NP-220MC | 220   | 22 μH±20%                     | 378                                     | 0.68                          | 24.7                         | -0306          |
| 17  | CD43NP-270MC | 270   | 27 μH±20%                     | 522                                     | 0.62                          | 21.7                         | -0307          |
| 18  | CD43NP-330KC | 330   | 33 μH±10%                     | 540                                     | 0.56                          | 19.6                         | -0308          |
| 19  | CD43NP-390KC | 390   | 39 μH±10%                     | 587                                     | 0.52                          | 18.0                         | -0309          |
| 20  | CD43NP-470KC | 470   | 47 μH±10%                     | 844                                     | 0.44                          | 15.6                         | -0310          |
| 21  | CD43NP-560KC | 560   | 56 μH±10%                     | 937                                     | 0.42                          | 14.8                         | -0311          |
| 22  | CD43NP-680KC | 680   | 68 μH±10%                     | 1117                                    | 0.37                          | 13.2                         | -0312          |

# SPECIFICATION

TYPE

CD 4 3

## 2-3. ELECTRICAL CHARACTERISTICS II (IN THE CASE OF BOX)

| NO. | PART NAME    | STAMP | INDUCTANCE<br>[WITHIN]<br>※ 1 | D. C. R.<br>(mΩ)<br>[MAX. ]<br>(at 20℃) | RATED<br>CURRENT<br>(A)<br>※2 | S. R. F.<br>(MHz)<br>[TYP. ] | SUMIDA<br>CODE |
|-----|--------------|-------|-------------------------------|-----------------------------------------|-------------------------------|------------------------------|----------------|
| 23  | CD43NP-1R0MB | 1R0   | 1.0 μH ± 20%                  | 48.7                                    | 2.70                          | 113.8                        | -0313          |
| 24  | CD43NP-1R4MB | 1R4   | 1.4 μH ± 20%                  | 56.2                                    | 2.50                          | 101.0                        | -0314          |
| 25  | CD43NP-1R8MB | 1R8   | 1.8 μH ± 20%                  | 63.7                                    | 2.33                          | 92.0                         | -0315          |
| 26  | CD43NP-2R2MB | 2R2   | 2.2 μH ± 20%                  | 71.2                                    | 2.25                          | 76.3                         | -0317          |
| 27  | CD43NP-2R7MB | 2R7   | 2.7 μH ± 20%                  | 78.7                                    | 2.16                          | 66.6                         | -0318          |
| 28  | CD43NP-3R3MB | 3R3   | 3.3 μH ± 20%                  | 86.2                                    | 2.00                          | 63.8                         | -0319          |
| 29  | CD43NP-3R9MB | 3R9   | 3.9 μH ± 20%                  | 93.7                                    | 1.84                          | 53.8                         | -0320          |
| 30  | CD43NP-4R7MB | 4R7   | 4.7 μH ± 20%                  | 108.7                                   | 1.62                          | 49.5                         | -0321          |
| 31  | CD43NP-5R6MB | 5R6   | 5.6 μH ± 20%                  | 125.7                                   | 1.48                          | 43.2                         | -0322          |
| 32  | CD43NP-6R8MB | 6R8   | 6.8 μH ± 20%                  | 131.2                                   | 1.43                          | 41.4                         | -0323          |
| 33  | CD43NP-8R2MB | 8R2   | 8.2 μH ± 20%                  | 146.2                                   | 1.37                          | 35.8                         | -0324          |
| 34  | CD43NP-100MB | 100   | 10 μH ± 20%                   | 182                                     | 1.04                          | 35.8                         | -0325          |
| 35  | CD43NP-120MB | 120   | 12 μH ± 20%                   | 210                                     | 0.97                          | 32.4                         | -0326          |
| 36  | CD43NP-150MB | 150   | 15 μH ± 20%                   | 235                                     | 0.85                          | 29.3                         | -0328          |
| 37  | CD43NP-180MB | 180   | 18 μH ± 20%                   | 338                                     | 0.74                          | 27.5                         | -0329          |
| 38  | CD43NP-220MB | 220   | 22 μH ± 20%                   | 378                                     | 0.68                          | 24.7                         | -0330          |
| 39  | CD43NP-270MB | 270   | 27 μH ± 20%                   | 522                                     | 0.62                          | 21.7                         | -0331          |
| 40  | CD43NP-330KB | 330   | 33 μH ± 10%                   | 540                                     | 0.56                          | 19.6                         | -0332          |
| 41  | CD43NP-390KB | 390   | 39 μH ± 10%                   | 587                                     | 0.52                          | 18.0                         | -0333          |
| 42  | CD43NP-470KB | 470   | 47 μH ± 10%                   | 844                                     | 0.44                          | 15.6                         | -0334          |
| 43  | CD43NP-560KB | 560   | 56 μH ± 10%                   | 937                                     | 0.42                          | 14.8                         | -0335          |
| 44  | CD43NP-680KB | 680   | 68 μH ± 10%                   | 1117                                    | 0.37                          | 13.2                         | -0336          |

※1: MEASURED FREQUENCY L 1.0 μH ~ 8.2 μH ; at 7.96 MHz  
10 μH ~ 68 μH ; at 2.52 MHz

※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 ΔT=40℃ WHICHEVER IS LOWER. (Ta=20℃)

3. STORAGE TEMPERATURE RANGE : -40℃ ~ +100℃

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

