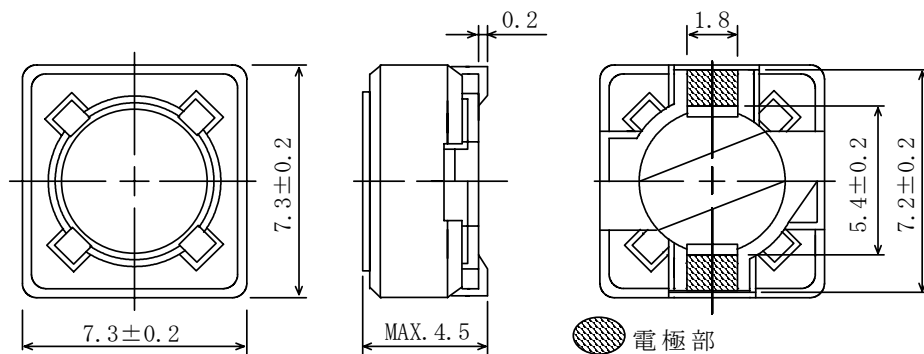


# 仕様書

|        |
|--------|
| 形 名    |
| CDRH74 |

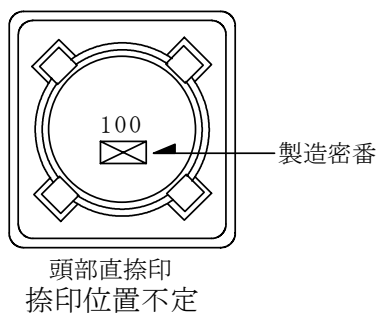
## 1. 外形

### 1-1. 寸法図 (mm)

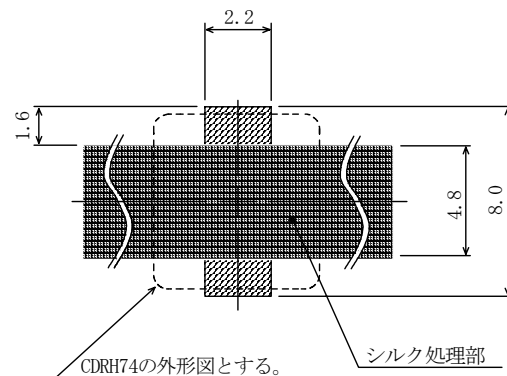


\* 公差のない寸法は参考値とする。

### 1-2. 捺印表示例



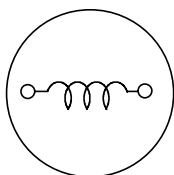
### 1-3. 推奨ランド寸法 (mm)



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

CDRH74

## 2-2. 電気的特性 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>( $\Omega$ ) [以下]<br>(at 20°C)<br>※2 | 定格電流<br>(A)<br>※3 | スミダ<br>コード |
|-----|----------------|-----|-----------------------|--------------------------------------------------|-------------------|------------|
| 01  | CDRH74NP-100MC | 100 | 10 $\mu$ H $\pm$ 20%  | 49m (38m)                                        | 1.84              | 4734-0371  |
| 02  | CDRH74NP-120MC | 120 | 12 $\mu$ H $\pm$ 20%  | 58m (44m)                                        | 1.71              | 4734-0372  |
| 03  | CDRH74NP-150MC | 150 | 15 $\mu$ H $\pm$ 20%  | 81m (62m)                                        | 1.47              | 4734-0373  |
| 04  | CDRH74NP-180MC | 180 | 18 $\mu$ H $\pm$ 20%  | 91m (70m)                                        | 1.31              | 4734-0374  |
| 05  | CDRH74NP-220MC | 220 | 22 $\mu$ H $\pm$ 20%  | 0.11 (77m)                                       | 1.23              | 4734-0375  |
| 06  | CDRH74NP-270MC | 270 | 27 $\mu$ H $\pm$ 20%  | 0.15 (0.12)                                      | 1.12              | 4734-0376  |
| 07  | CDRH74NP-330MC | 330 | 33 $\mu$ H $\pm$ 20%  | 0.17 (0.13)                                      | 0.96              | 4734-0378  |
| 08  | CDRH74NP-390MC | 390 | 39 $\mu$ H $\pm$ 20%  | 0.23 (0.18)                                      | 0.91              | 4734-0376  |
| 09  | CDRH74NP-470MC | 470 | 47 $\mu$ H $\pm$ 20%  | 0.26 (0.20)                                      | 0.88              | 4734-0380  |
| 10  | CDRH74NP-560MC | 560 | 56 $\mu$ H $\pm$ 20%  | 0.35 (0.27)                                      | 0.75              | 4734-0381  |
| 11  | CDRH74NP-680MC | 680 | 68 $\mu$ H $\pm$ 20%  | 0.38 (0.30)                                      | 0.69              | 4734-0382  |
| 12  | CDRH74NP-820MC | 820 | 82 $\mu$ H $\pm$ 20%  | 0.43 (0.33)                                      | 0.61              | 4734-0383  |
| 13  | CDRH74NP-101MC | 101 | 100 $\mu$ H $\pm$ 20% | 0.61 (0.47)                                      | 0.60              | 4734-0384  |
| 14  | CDRH74NP-121MC | 121 | 120 $\mu$ H $\pm$ 20% | 0.66 (0.51)                                      | 0.52              | 4734-0385  |
| 15  | CDRH74NP-151MC | 151 | 150 $\mu$ H $\pm$ 20% | 0.88 (0.68)                                      | 0.46              | 4734-0386  |
| 16  | CDRH74NP-181MC | 181 | 180 $\mu$ H $\pm$ 20% | 0.98 (0.76)                                      | 0.42              | 4734-0387  |
| 17  | CDRH74NP-221MC | 221 | 220 $\mu$ H $\pm$ 20% | 1.17 (0.90)                                      | 0.36              | 4734-0389  |
| 18  | CDRH74NP-271MC | 271 | 270 $\mu$ H $\pm$ 20% | 1.64 (1.32)                                      | 0.34              | 4734-0390  |
| 19  | CDRH74NP-331MC | 331 | 330 $\mu$ H $\pm$ 20% | 1.86 (1.49)                                      | 0.32              | 4734-0391  |
| 20  | CDRH74NP-391MC | 391 | 390 $\mu$ H $\pm$ 20% | 2.85 (2.28)                                      | 0.29              | 4734-0392  |
| 21  | CDRH74NP-471MC | 471 | 470 $\mu$ H $\pm$ 20% | 3.01 (2.41)                                      | 0.26              | 4734-0393  |
| 22  | CDRH74NP-561MC | 561 | 560 $\mu$ H $\pm$ 20% | 3.62 (2.89)                                      | 0.23              | 4734-0394  |
| 23  | CDRH74NP-681MC | 681 | 680 $\mu$ H $\pm$ 20% | 4.63 (3.71)                                      | 0.22              | 4734-0395  |
| 24  | CDRH74NP-821MC | 821 | 820 $\mu$ H $\pm$ 20% | 5.20 (4.16)                                      | 0.20              | 4734-0396  |
| 25  | CDRH74NP-102MC | 102 | 1.0mH $\pm$ 20%       | 6.00 (4.80)                                      | 0.18              | 4734-0397  |

# 仕 様 書

形 名

CDRH74

## 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>( $\Omega$ ) [以下]<br>(at 20°C)<br>※2 | 定格電流<br>(A)<br>※3 | スミダ<br>コード |
|-----|----------------|-----|-----------------------|--------------------------------------------------|-------------------|------------|
| 26  | CDRH74NP-100MB | 100 | 10 $\mu$ H $\pm$ 20%  | 49m (38m)                                        | 1.84              | 4734-0398  |
| 27  | CDRH74NP-120MB | 120 | 12 $\mu$ H $\pm$ 20%  | 58m (44m)                                        | 1.71              | 4734-0401  |
| 28  | CDRH74NP-150MB | 150 | 15 $\mu$ H $\pm$ 20%  | 81m (62m)                                        | 1.47              | 4734-0402  |
| 29  | CDRH74NP-180MB | 180 | 18 $\mu$ H $\pm$ 20%  | 91m (70m)                                        | 1.31              | 4734-0403  |
| 30  | CDRH74NP-220MB | 220 | 22 $\mu$ H $\pm$ 20%  | 0.11 (77m)                                       | 1.23              | 4734-0404  |
| 31  | CDRH74NP-270MB | 270 | 27 $\mu$ H $\pm$ 20%  | 0.15 (0.12)                                      | 1.12              | 4734-0405  |
| 32  | CDRH74NP-330MB | 330 | 33 $\mu$ H $\pm$ 20%  | 0.17 (0.13)                                      | 0.96              | 4734-0406  |
| 33  | CDRH74NP-390MB | 390 | 39 $\mu$ H $\pm$ 20%  | 0.23 (0.18)                                      | 0.91              | 4734-0407  |
| 34  | CDRH74NP-470MB | 470 | 47 $\mu$ H $\pm$ 20%  | 0.26 (0.20)                                      | 0.88              | 4734-0408  |
| 35  | CDRH74NP-560MB | 560 | 56 $\mu$ H $\pm$ 20%  | 0.35 (0.27)                                      | 0.75              | 4734-0409  |
| 36  | CDRH74NP-680MB | 680 | 68 $\mu$ H $\pm$ 20%  | 0.38 (0.30)                                      | 0.69              | 4734-0410  |
| 37  | CDRH74NP-820MB | 820 | 82 $\mu$ H $\pm$ 20%  | 0.43 (0.33)                                      | 0.61              | 4734-0412  |
| 38  | CDRH74NP-101MB | 101 | 100 $\mu$ H $\pm$ 20% | 0.61 (0.47)                                      | 0.60              | 4734-0413  |
| 39  | CDRH74NP-121MB | 121 | 120 $\mu$ H $\pm$ 20% | 0.66 (0.51)                                      | 0.52              | 4734-0414  |
| 40  | CDRH74NP-151MB | 151 | 150 $\mu$ H $\pm$ 20% | 0.88 (0.68)                                      | 0.46              | 4734-0415  |
| 41  | CDRH74NP-181MB | 181 | 180 $\mu$ H $\pm$ 20% | 0.98 (0.76)                                      | 0.42              | 4734-0416  |
| 42  | CDRH74NP-221MB | 221 | 220 $\mu$ H $\pm$ 20% | 1.17 (0.90)                                      | 0.36              | 4734-0417  |
| 43  | CDRH74NP-271MB | 271 | 270 $\mu$ H $\pm$ 20% | 1.64 (1.32)                                      | 0.34              | 4734-0418  |
| 44  | CDRH74NP-331MB | 331 | 330 $\mu$ H $\pm$ 20% | 1.86 (1.49)                                      | 0.32              | 4734-0419  |
| 45  | CDRH74NP-391MB | 391 | 390 $\mu$ H $\pm$ 20% | 2.85 (2.28)                                      | 0.29              | 4734-0420  |
| 46  | CDRH74NP-471MB | 471 | 470 $\mu$ H $\pm$ 20% | 3.01 (2.41)                                      | 0.26              | 4734-0421  |
| 47  | CDRH74NP-561MB | 561 | 560 $\mu$ H $\pm$ 20% | 3.62 (2.89)                                      | 0.23              | 4734-0423  |
| 48  | CDRH74NP-681MB | 681 | 680 $\mu$ H $\pm$ 20% | 4.63 (3.71)                                      | 0.22              | 4734-0424  |
| 49  | CDRH74NP-821MB | 821 | 820 $\mu$ H $\pm$ 20% | 5.20 (4.16)                                      | 0.20              | 4734-0425  |
| 50  | CDRH74NP-102MB | 102 | 1.0mH $\pm$ 20%       | 6.00 (4.80)                                      | 0.18              | 4734-0426  |

※1: 測定周波数 L at 1 kHz

※2: ( )内は標準値とする。

※3: 定格電流は直流重畳特性に於て、インダクタンスが公称値より-25%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 $\Delta t=40^{\circ}\text{C}$ となる電流値の少ない方の値。(Ta=20°Cを基準とする。)

3. 保存温度範囲 -40°C~+100°C

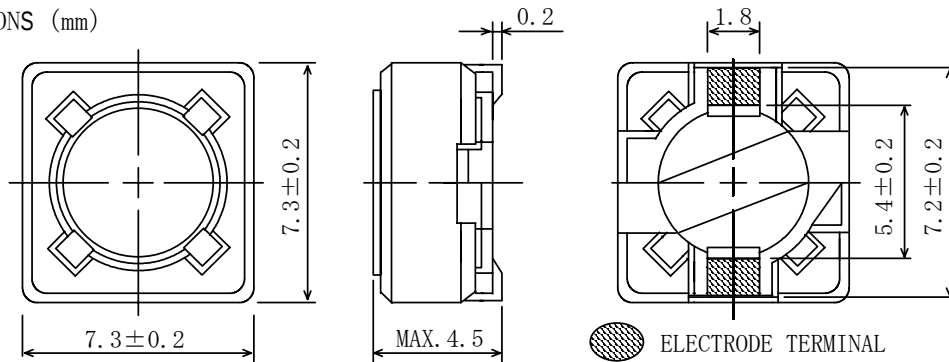
使用温度範囲 -40°C~+100°C (コイルの発熱を含む。)

# SPECIFICATION

TYPE  
CDRH74

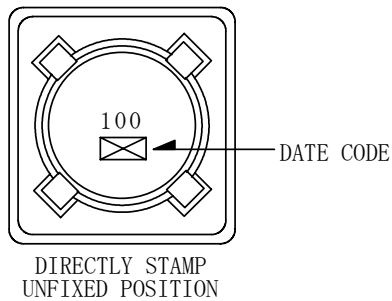
## 1. APPEARANCE

### 1-1. DIMENSIONS (mm)

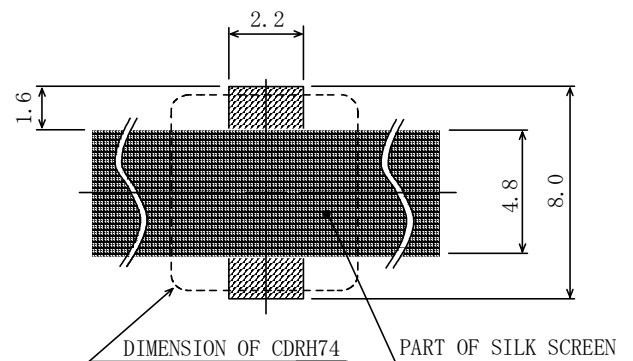


\* DIMENSIONS WITHOUT TOLERANCE ARE APPROX. (BOTTOM VIEW)

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

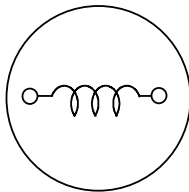


### 1-3. DIMENSION RECOMMENDED (mm)



## 2. COIL SPECIFICATION

### 2-1. CONNECTION



PLEASE COAT WITH SILK SCREEN BETWEEN THE TWO TERMINALS.

**RoHS**

compliance

Cd:Max. 0.01wt%

others:Max. 0.1wt%



# SPECIFICATION

TYPE  
CDRH74

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

| NO. | PART NO.       | STAMP | INDUCTANCE<br>[WITHIN]<br>※1 | D. C. R.<br>( $\Omega$ ) [MAX.]<br>(at 20°C)<br>※2 | RATED<br>CURRENT<br>(A)<br>※3 | SUMIDA<br>CODE |
|-----|----------------|-------|------------------------------|----------------------------------------------------|-------------------------------|----------------|
| 01  | CDRH74NP-100MC | 100   | 10 $\mu$ H $\pm$ 20%         | 49m (38m)                                          | 1.84                          | 4734-0371      |
| 02  | CDRH74NP-120MC | 120   | 12 $\mu$ H $\pm$ 20%         | 58m (44m)                                          | 1.71                          | 4734-0372      |
| 03  | CDRH74NP-150MC | 150   | 15 $\mu$ H $\pm$ 20%         | 81m (62m)                                          | 1.47                          | 4734-0373      |
| 04  | CDRH74NP-180MC | 180   | 18 $\mu$ H $\pm$ 20%         | 91m (70m)                                          | 1.31                          | 4734-0374      |
| 05  | CDRH74NP-220MC | 220   | 22 $\mu$ H $\pm$ 20%         | 0.11 (77m)                                         | 1.23                          | 4734-0375      |
| 06  | CDRH74NP-270MC | 270   | 27 $\mu$ H $\pm$ 20%         | 0.15 (0.12)                                        | 1.12                          | 4734-0376      |
| 07  | CDRH74NP-330MC | 330   | 33 $\mu$ H $\pm$ 20%         | 0.17 (0.13)                                        | 0.96                          | 4734-0378      |
| 08  | CDRH74NP-390MC | 390   | 39 $\mu$ H $\pm$ 20%         | 0.23 (0.18)                                        | 0.91                          | 4734-0376      |
| 09  | CDRH74NP-470MC | 470   | 47 $\mu$ H $\pm$ 20%         | 0.26 (0.20)                                        | 0.88                          | 4734-0380      |
| 10  | CDRH74NP-560MC | 560   | 56 $\mu$ H $\pm$ 20%         | 0.35 (0.27)                                        | 0.75                          | 4734-0381      |
| 11  | CDRH74NP-680MC | 680   | 68 $\mu$ H $\pm$ 20%         | 0.38 (0.30)                                        | 0.69                          | 4734-0382      |
| 12  | CDRH74NP-820MC | 820   | 82 $\mu$ H $\pm$ 20%         | 0.43 (0.33)                                        | 0.61                          | 4734-0383      |
| 13  | CDRH74NP-101MC | 101   | 100 $\mu$ H $\pm$ 20%        | 0.61 (0.47)                                        | 0.60                          | 4734-0384      |
| 14  | CDRH74NP-121MC | 121   | 120 $\mu$ H $\pm$ 20%        | 0.66 (0.51)                                        | 0.52                          | 4734-0385      |
| 15  | CDRH74NP-151MC | 151   | 150 $\mu$ H $\pm$ 20%        | 0.88 (0.68)                                        | 0.46                          | 4734-0386      |
| 16  | CDRH74NP-181MC | 181   | 180 $\mu$ H $\pm$ 20%        | 0.98 (0.76)                                        | 0.42                          | 4734-0387      |
| 17  | CDRH74NP-221MC | 221   | 220 $\mu$ H $\pm$ 20%        | 1.17 (0.90)                                        | 0.36                          | 4734-0389      |
| 18  | CDRH74NP-271MC | 271   | 270 $\mu$ H $\pm$ 20%        | 1.64 (1.32)                                        | 0.34                          | 4734-0390      |
| 19  | CDRH74NP-331MC | 331   | 330 $\mu$ H $\pm$ 20%        | 1.86 (1.49)                                        | 0.32                          | 4734-0391      |
| 20  | CDRH74NP-391MC | 391   | 390 $\mu$ H $\pm$ 20%        | 2.85 (2.28)                                        | 0.29                          | 4734-0392      |
| 21  | CDRH74NP-471MC | 471   | 470 $\mu$ H $\pm$ 20%        | 3.01 (2.41)                                        | 0.26                          | 4734-0393      |
| 22  | CDRH74NP-561MC | 561   | 560 $\mu$ H $\pm$ 20%        | 3.62 (2.89)                                        | 0.23                          | 4734-0394      |
| 23  | CDRH74NP-681MC | 681   | 680 $\mu$ H $\pm$ 20%        | 4.63 (3.71)                                        | 0.22                          | 4734-0395      |
| 24  | CDRH74NP-821MC | 821   | 820 $\mu$ H $\pm$ 20%        | 5.20 (4.16)                                        | 0.20                          | 4734-0396      |
| 25  | CDRH74NP-102MC | 102   | 1.0mH $\pm$ 20%              | 6.00 (4.80)                                        | 0.18                          | 4734-0397      |

# SPECIFICATION

TYPE  
CDRH74

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

| NO. | PART NO.       | STAMP | INDUCTANCE<br>[WITHIN]<br>※1 | D. C. R.<br>( $\Omega$ ) [MAX.]<br>(at 20°C)<br>※2 | RATED<br>CURRENT<br>(A)<br>※3 | SUMIDA<br>CODE |
|-----|----------------|-------|------------------------------|----------------------------------------------------|-------------------------------|----------------|
| 26  | CDRH74NP-100MB | 100   | 10 $\mu$ H $\pm$ 20%         | 49m (38m)                                          | 1.84                          | 4734-0398      |
| 27  | CDRH74NP-120MB | 120   | 12 $\mu$ H $\pm$ 20%         | 58m (44m)                                          | 1.71                          | 4734-0401      |
| 28  | CDRH74NP-150MB | 150   | 15 $\mu$ H $\pm$ 20%         | 81m (62m)                                          | 1.47                          | 4734-0402      |
| 29  | CDRH74NP-180MB | 180   | 18 $\mu$ H $\pm$ 20%         | 91m (70m)                                          | 1.31                          | 4734-0403      |
| 30  | CDRH74NP-220MB | 220   | 22 $\mu$ H $\pm$ 20%         | 0.11 (77m)                                         | 1.23                          | 4734-0404      |
| 31  | CDRH74NP-270MB | 270   | 27 $\mu$ H $\pm$ 20%         | 0.15 (0.12)                                        | 1.12                          | 4734-0405      |
| 32  | CDRH74NP-330MB | 330   | 33 $\mu$ H $\pm$ 20%         | 0.17 (0.13)                                        | 0.96                          | 4734-0406      |
| 33  | CDRH74NP-390MB | 390   | 39 $\mu$ H $\pm$ 20%         | 0.23 (0.18)                                        | 0.91                          | 4734-0407      |
| 34  | CDRH74NP-470MB | 470   | 47 $\mu$ H $\pm$ 20%         | 0.26 (0.20)                                        | 0.88                          | 4734-0408      |
| 35  | CDRH74NP-560MB | 560   | 56 $\mu$ H $\pm$ 20%         | 0.35 (0.27)                                        | 0.75                          | 4734-0409      |
| 36  | CDRH74NP-680MB | 680   | 68 $\mu$ H $\pm$ 20%         | 0.38 (0.30)                                        | 0.69                          | 4734-0410      |
| 37  | CDRH74NP-820MB | 820   | 82 $\mu$ H $\pm$ 20%         | 0.43 (0.33)                                        | 0.61                          | 4734-0412      |
| 38  | CDRH74NP-101MB | 101   | 100 $\mu$ H $\pm$ 20%        | 0.61 (0.47)                                        | 0.60                          | 4734-0413      |
| 39  | CDRH74NP-121MB | 121   | 120 $\mu$ H $\pm$ 20%        | 0.66 (0.51)                                        | 0.52                          | 4734-0414      |
| 40  | CDRH74NP-151MB | 151   | 150 $\mu$ H $\pm$ 20%        | 0.88 (0.68)                                        | 0.46                          | 4734-0415      |
| 41  | CDRH74NP-181MB | 181   | 180 $\mu$ H $\pm$ 20%        | 0.98 (0.76)                                        | 0.42                          | 4734-0416      |
| 42  | CDRH74NP-221MB | 221   | 220 $\mu$ H $\pm$ 20%        | 1.17 (0.90)                                        | 0.36                          | 4734-0417      |
| 43  | CDRH74NP-271MB | 271   | 270 $\mu$ H $\pm$ 20%        | 1.64 (1.32)                                        | 0.34                          | 4734-0418      |
| 44  | CDRH74NP-331MB | 331   | 330 $\mu$ H $\pm$ 20%        | 1.86 (1.49)                                        | 0.32                          | 4734-0419      |
| 45  | CDRH74NP-391MB | 391   | 390 $\mu$ H $\pm$ 20%        | 2.85 (2.28)                                        | 0.29                          | 4734-0420      |
| 46  | CDRH74NP-471MB | 471   | 470 $\mu$ H $\pm$ 20%        | 3.01 (2.41)                                        | 0.26                          | 4734-0421      |
| 47  | CDRH74NP-561MB | 561   | 560 $\mu$ H $\pm$ 20%        | 3.62 (2.89)                                        | 0.23                          | 4734-0423      |
| 48  | CDRH74NP-681MB | 681   | 680 $\mu$ H $\pm$ 20%        | 4.63 (3.71)                                        | 0.22                          | 4734-0424      |
| 49  | CDRH74NP-821MB | 821   | 820 $\mu$ H $\pm$ 20%        | 5.20 (4.16)                                        | 0.20                          | 4734-0425      |
| 50  | CDRH74NP-102MB | 102   | 1.0mH $\pm$ 20%              | 6.00 (4.80)                                        | 0.18                          | 4734-0426      |

※1: MEASURED FREQUENCY L at 1 kHz

※2 : ( ) TYPICAL VALUE.

※3: THIS INDICATES THE VALUE OF CURRENT WHEN THE INDUCTANCE IS 25% LOWER THAN ITS NOMINAL VALUE AT D. C. SUPERPOSITION OR D. C. CURRENT WHEN  $\Delta T=40^{\circ}\text{C}$  WHICHEVER IS LOWER. ( $T_a=20^{\circ}\text{C}$ )

3. STORAGE TEMPERATURE RANGE :  $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$

OPERATING TEMPERATURE RANGE:  $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$  (INCLUDING SELF TEMPERATURE RISE)

