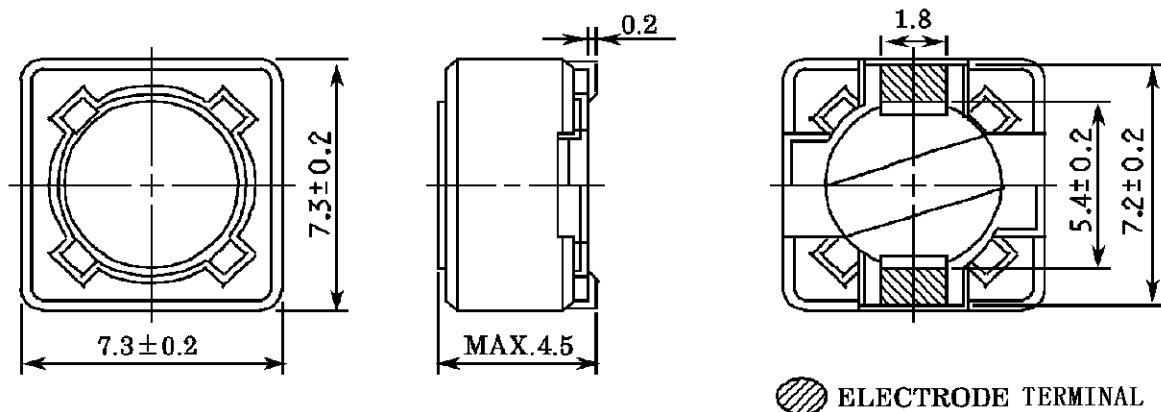


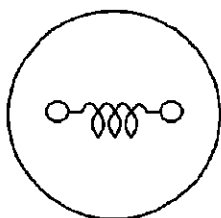
|  |                         |                                        |
|--|-------------------------|----------------------------------------|
|  | SPECIFICATION           |                                        |
|  | SUMIDA TYPE      CDRH74 | PART NO.   REF. TO THE ATTACHED SHEET. |

1. DIMENSION (UNIT   mm)

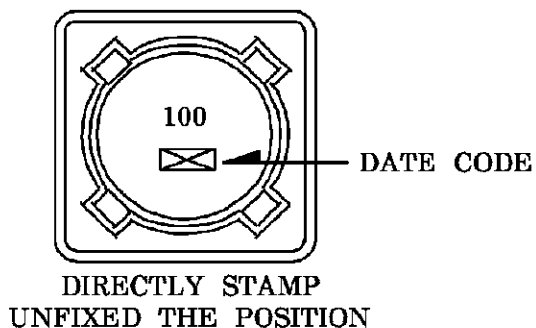


\* DIMENSION WITHOUT TOLERANCE ARE APPROX.

2. CONNECTION (BOTTOM)



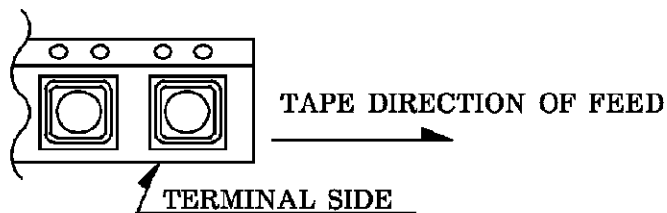
3. STAMP (Ex.)



4. NOTE

\* PLEASE DO NOT USE A WASHING AGENT.

\* ENCLOSING CONDITION OF COILS.



\* CARRIER TAPE PACKING SPECIFICATION IN DETAIL.(S-074-491)

\* RECOMMENDED REFLOW CONDITION TO BE ACCORDING TO S-074-5003.

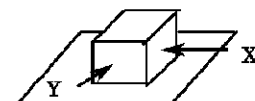
|                   |                |             |             |      |                               |
|-------------------|----------------|-------------|-------------|------|-------------------------------|
| 25 th AUG ., 1993 |                |             | SUMIDA CODE | 4734 | DRG. NO. 2/5<br><br>S-074-488 |
| C H K.            | C H K.         | D R G.      |             |      |                               |
| O.SATO            | Y.WATA<br>NABE | K.SATO<br>U |             |      |                               |

|                         |                |
|-------------------------|----------------|
| GENERAL CHARACTERISTICS | TYPE<br>CDRH74 |
|-------------------------|----------------|

1. OPERATIONG TEMPERATURE : -30 ~ +100 °C (COIL CONTAIN HEAT)

2. EXTERNAL APPEARANCE : ON VISUAL INSPECTION,THE COIL HAS NO EXTERNAL DEFECTS.

△ 3. ELECTRODE STRENGTH : AFTER SOLDERING, BETWEEN COPPER PLATE AND ELECTRODE OF COIL, PUSH IN THREE DIRECTIONS OF X, Y WITHSTANDING 5.0N(0.51kgf) FOR 10±2 SECONDS. ELECTRODE SHOULD NOT PEEL OFF. (REFER TO FIGURE AT RIGHT)



4. HEAT ENDURANCE TEST : REFER TO THE S-074-5002.

5. DIELECTRIC STRENGTH : NO APPARENT AT 100V D.C. FOR 1 MINUTE BETWEEN COIL-CORE.

6. INSULATING RESISTANCE : OVER 100 MΩ AT 100V D.C. BETWEEN COIL-CORE.

7. INDUCTANCE TEMPERATURE COEFFICIENT : ( 0 ~ 2000 )×10<sup>-6</sup>/°C ( -25 ~ + 80 °C )

8. HUMIDITY TEST : INDUCTANCE DEVIATION WITHIN ± 5.0 %

AFTER 96 HOURS IN 90 ~ 95 % RELATIVE HUMIDITY AT 40 ± 2 °C AND 1 HOUR DRYING UNDER NORMAL CONDITION.

9. VIBRATION TEST : INDUCTANCE DEVIATION WITHIN ± 3.0 % AFTER VIBRATION FOR 1 HOUR. IN EACH OF THREE ORIENTATIONS AT SWEEP VIBRATION (10~55~10 Hz) WITH 1.5 mm P-P AMPLITUDE.

10. SHOCK TEST : INDUCTANCE DEVIATION WITHIN ± 3.0 % AFTER DROP DOWN WITH 981m/s<sup>2</sup>(100G) SHOCK ATTITUDE UPON A RUBBER BLOCK METHOD SHOCK TESTING MACHINE, FOR 1 TIME, IN EACH OF THREE ORIENTATIONS.

25 th AUG . , 1993

| C H K . | C H K .        | D R G .     |
|---------|----------------|-------------|
| O.SATO  | Y.WATA<br>NABE | K.SATO<br>U |

|           |     |
|-----------|-----|
| DRG. NO.  | 3/5 |
| S-074-488 |     |

|               |                |
|---------------|----------------|
| SPECIFICATION | TYPE<br>CDRH74 |
|---------------|----------------|

# ELECTRICAL CHARACTERISTICS

| NO. | PART NO.     | STAMP | INDUCTANCE<br>[WITHIN ]<br>※ 1 | D.C.R.<br>( $\Omega$ ) [MAX.]<br>(at 20 °C)<br>(TYPICAL BALUE) | RATED<br>CURRENT<br>(A)<br>※ 2 | SUMIDA<br>CODE |
|-----|--------------|-------|--------------------------------|----------------------------------------------------------------|--------------------------------|----------------|
| 01  | CDRH74-100MC | 100   | 10 $\mu$ H $\pm$ 20 %          | 49m (38m)                                                      | 1.84                           | -0008          |
| 02  | CDRH74-120MC | 120   | 12 $\mu$ H $\pm$ 20 %          | 58m (44m)                                                      | 1.71                           | -0019          |
| 03  | CDRH74-150MC | 150   | 15 $\mu$ H $\pm$ 20 %          | 81m (62m)                                                      | 1.47                           | -0020          |
| 04  | CDRH74-180MC | 180   | 18 $\mu$ H $\pm$ 20 %          | 91m (70m)                                                      | 1.31                           | -0031          |
| 05  | CDRH74-220MC | 220   | 22 $\mu$ H $\pm$ 20 %          | 0.11 (77m)                                                     | 1.23                           | -0042          |
| 06  | CDRH74-270MC | 270   | 27 $\mu$ H $\pm$ 20 %          | 0.15 (0.12)                                                    | 1.12                           | -0053          |
| 07  | CDRH74-330MC | 330   | 33 $\mu$ H $\pm$ 20 %          | 0.17 (0.13)                                                    | 0.96                           | -0064          |
| 08  | CDRH74-390MC | 390   | 39 $\mu$ H $\pm$ 20 %          | 0.23 (0.18)                                                    | 0.91                           | -0075          |
| 09  | CDRH74-470MC | 470   | 47 $\mu$ H $\pm$ 20 %          | 0.26 (0.20)                                                    | 0.88                           | -0086          |
| 10  | CDRH74-560MC | 560   | 56 $\mu$ H $\pm$ 20 %          | 0.35 (0.27)                                                    | 0.75                           | -0097          |
| 11  | CDRH74-680MC | 680   | 68 $\mu$ H $\pm$ 20 %          | 0.38 (0.30)                                                    | 0.69                           | -0108          |
| 12  | CDRH74-820MC | 820   | 82 $\mu$ H $\pm$ 20 %          | 0.43 (0.33)                                                    | 0.61                           | -0119          |
| 13  | CDRH74-101MC | 101   | 100 $\mu$ H $\pm$ 20 %         | 0.61 (0.47)                                                    | 0.60                           | -0121          |
| 14  | CDRH74-121MC | 121   | 120 $\mu$ H $\pm$ 20 %         | 0.66 (0.51)                                                    | 0.52                           | -0132          |
| 15  | CDRH74-151MC | 151   | 150 $\mu$ H $\pm$ 20 %         | 0.88 (0.68)                                                    | 0.46                           | -0143          |
| 16  | CDRH74-181MC | 181   | 180 $\mu$ H $\pm$ 20 %         | 0.98 (0.76)                                                    | 0.42                           | -0154          |
| 17  | CDRH74-221MC | 221   | 220 $\mu$ H $\pm$ 20 %         | 1.17 (0.90)                                                    | 0.36                           | -0165          |
| 18  | CDRH74-271MC | 271   | 270 $\mu$ H $\pm$ 20 %         | 1.64 (1.32)                                                    | 0.34                           | -0176          |
| 19  | CDRH74-331MC | 331   | 330 $\mu$ H $\pm$ 20 %         | 1.86 (1.49)                                                    | 0.32                           | -0187          |
| 20  | CDRH74-391MC | 391   | 390 $\mu$ H $\pm$ 20 %         | 2.85 (2.28)                                                    | 0.29                           | -0198          |
| 21  | CDRH74-471MC | 471   | 470 $\mu$ H $\pm$ 20 %         | 3.01 (2.41)                                                    | 0.26                           | -0209          |
| 22  | CDRH74-561MC | 561   | 560 $\mu$ H $\pm$ 20 %         | 3.62 (2.89)                                                    | 0.23                           | -0210          |
| 23  | CDRH74-681MC | 681   | 680 $\mu$ H $\pm$ 20 %         | 4.63 (3.71)                                                    | 0.22                           | -0221          |
| 24  | CDRH74-821MC | 821   | 820 $\mu$ H $\pm$ 20 %         | 5.20 (4.16)                                                    | 0.20                           | -0232          |
| 25  | CDRH74-102MC | 102   | 1.0 mH $\pm$ 20 %              | 6.00 (4.80)                                                    | 0.18                           | -0243          |

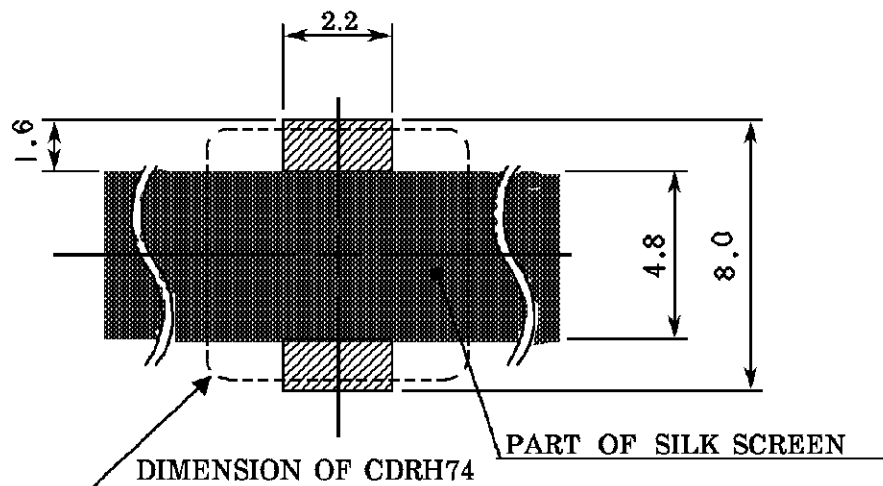
※ 1: MEASURED FREQUENCY L at 1 kHz

※ 2: THIS INDICATES THE VALUE OF CURRENT WHEN THE INDUCTANCE IS 75% MORE THAN IT'S NOMINAL VALUE AND TEMPERATURE RISING  $\Delta t = 40^{\circ}\text{C}$  LOWER AT D. C. SUPERPOSITION. ( $T_a = 20^{\circ}\text{C}$ )

|                    |                |             |             |      |                                  |
|--------------------|----------------|-------------|-------------|------|----------------------------------|
| 25 th AUG . , 1993 |                |             | SUMIDA CODE | 4734 | DEG NO. <div>S-074-488</div> 4/5 |
| C H K.             | C H K.         | D R G.      |             |      |                                  |
| O.SATO             | Y.WATA<br>NABE | K.SATO<br>U |             |      |                                  |

|               |                |
|---------------|----------------|
| SPECIFICATION | TYPE<br>CDRH74 |
|---------------|----------------|

DIMENSION RECOMMENDED (mm)



PLEASE COAT WITH SILK BETWEEN ELECTRODE .  $\triangle$

25 th AUG . , 1993

| C H K. | C H K.         | D R G.      |
|--------|----------------|-------------|
| O.SATO | Y.WATA<br>NABE | K.SATO<br>U |

|           |     |
|-----------|-----|
| DRG. NO.  | 5/5 |
| S-074-488 |     |