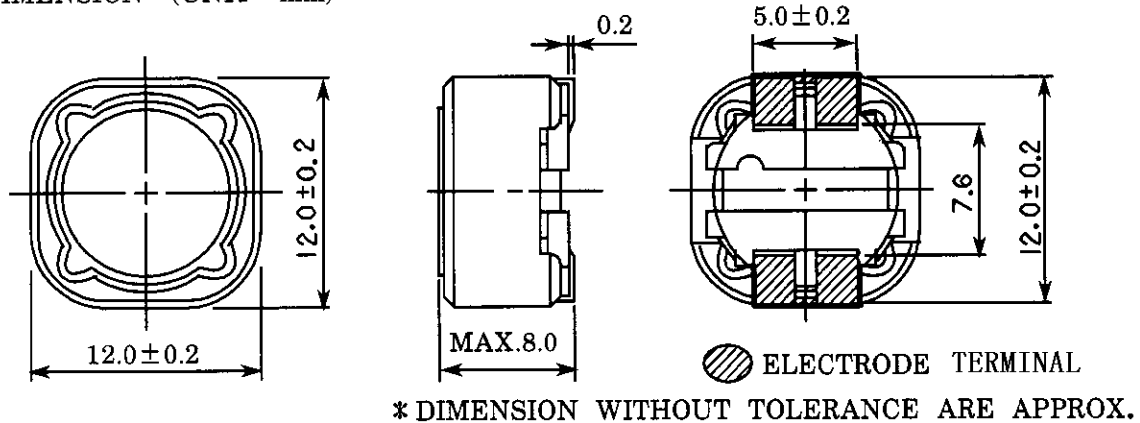
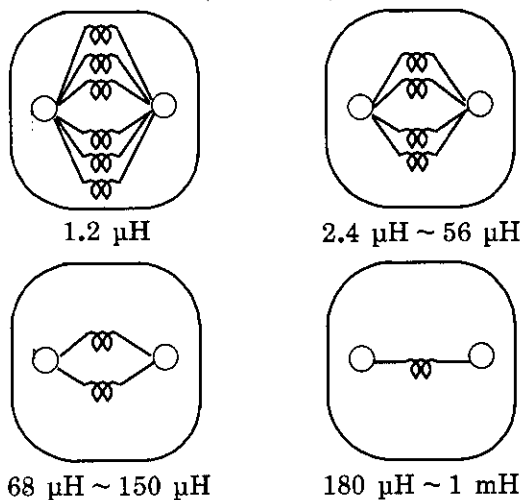


|  | SPECIFICATION       |                                      |
|--|---------------------|--------------------------------------|
|  | SUMIDA TYPE CDRH127 | PART NO. REF. TO THE ATTACHED SHEET. |

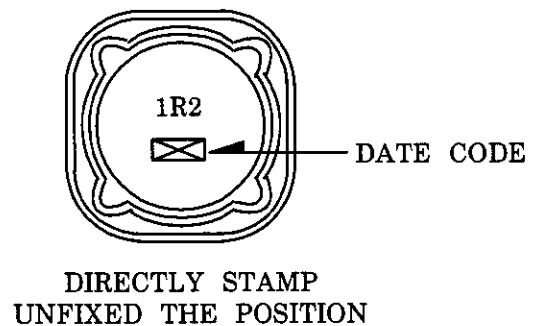
# 1. DIMENSION (UNIT mm)



# 2. CONNECTION (BOTTOM)

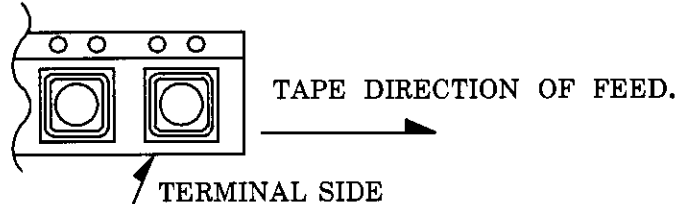


# 3. STAMP (Ex.)



# 4. NOTE

- \* PLEASE DO NOT USE A WASHING AGENT.
- \* ENCLOSING CONDITION OF COILS.



\* CARRIER TAPE PACKING SPECIFICATION IN DETAIL.(S-074-512)

# \* RECOMMENDATION

DUE TO THE COIL HEAVY WEIGHT. PLEASE APPLY BOND BETWEEN THIS COIL PART AND P.C.B. WHEN FIXED ONTO THE PCB.

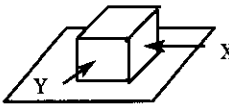
\* RECOMMENDED REFLOW CONDITION TO BE ACCORDING TO S-074-5003.

|                    |        |        |             |      |                               |
|--------------------|--------|--------|-------------|------|-------------------------------|
| 17 th SEP . , 1996 |        |        | SUMIDA CODE | 4739 | DRG. NO. 2/6<br><br>S-074-516 |
| C H K.             | C H K. | D R G. |             |      |                               |
| O.SATO             | MAKABE | MONMA  |             |      |                               |
|                    |        | M      |             |      |                               |

# GENERAL CHARACTERISTICS

|         |
|---------|
| TYPE    |
| CDRH127 |

5

1. OPERATIONG TEMPERATURE :  $-40 \sim +100^{\circ}\text{C}$  (COIL CONTAIN HEAT)
2. EXTERNAL APPEARANCE : ON VISUAL INSPECTION,THE COIL HAS NO EXTERNAL DEFECTS.
3. ELECTRODE STRENGTH  $\triangle$  : AFTER SOLDERING ,BETWEEN COPPER PLATE AND ELECTRODE OF COIL ,PUSH IN TWO DIRECTIONS OF X,Y WITHSTANDING 5.0N FOR  $10 \pm 2$  SECONDS. ELECTRODE SHOULD NOT PEEL OFF. (REFER TO FIGURE AT RIGHT)
 
4. HEAT ENDURANCE TEST: REFER TO THE S-074-5002.
5. DIELECTRIC STRENGTH :  $\triangle$  NO APPARENT AT 100V D.C. (LEAK CURRENT:1.0mA) FOR 1 MINUTE BETWEEN COIL-CORE.
6. INSULATING RESISTANCE : OVER 100M $\Omega$  AT 100V D.C. BETWEEN COIL-CORE.
7. INDUCTANCE TEMPERATURE COEFFICIENT :  $(0 \sim 2000) \times 10^{-6}/^{\circ}\text{C}$   $(-25 \sim +80^{\circ}\text{C})$
8. HUMIDITY TEST : INDUCTANCE DEVIATION WITHIN  $\pm 5.0\%$   
AFTER 96 HOURS IN 90~95% RELATIVE HUMIDITY AT  $40 \pm 2^{\circ}\text{C}$  AND 1 HOUR DRYING UNDER NORMAL CONDITION.
9. VIBRATION TEST : INDUCTANCE DEVIATION WITHIN  $\pm 3.0\%$  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  $\pm 3.0\%$   
AFTER DROP DOWN WITH 981m/s<sup>2</sup> SHOCK ATTITUDE UPON A RUBBER BLOCK METHOD SHOCK TESTING MACHINE ,FOR 1 TIME ,IN EACH OF THREE ORIENTATIONS.

7 th SEP . , 1995

| CH K. | CH K.   | DR G. |
|-------|---------|-------|
| KOMA  |         |       |
| ITA   | Y.OKADA | MONMA |
|       |         | M     |

|           |     |
|-----------|-----|
| DRG. NO.  | 3/6 |
| S-074-516 |     |

# SPECIFICATION

|      |         |
|------|---------|
| TYPE | CDRH127 |
|------|---------|

## ELECTRICAL CHARACTERISTICS

| NO. | PART NO.      | STAMP | INDUCTANCE<br>[WITHIN]                                         | RATED<br>CURRENT<br>(A) ※1 | D.C.R.<br>(Ω, at 20°C)<br>MAX. (TYP.) | SUMIDA<br>CODE |
|-----|---------------|-------|----------------------------------------------------------------|----------------------------|---------------------------------------|----------------|
| 01  | CDRH127-1R2NC | 1R2   | 1.2 μH $\begin{smallmatrix} + 40 \\ - 20 \end{smallmatrix} \%$ | 9.80                       | 7.0 m (5.2 m)                         | 4739-0012      |
| 02  | CDRH127-2R4NC | 2R4   | 2.4 μH $\begin{smallmatrix} + 40 \\ - 20 \end{smallmatrix} \%$ | 8.00                       | 11.5 m (8.5 m)                        | 4739-0023      |
| 03  | CDRH127-3R5NC | 3R5   | 3.5 μH $\begin{smallmatrix} + 40 \\ - 20 \end{smallmatrix} \%$ | 7.50                       | 13.5 m (10.0 m)                       | 4739-0034      |
| 04  | CDRH127-4R7NC | 4R7   | 4.7 μH $\begin{smallmatrix} + 40 \\ - 20 \end{smallmatrix} \%$ | 6.80                       | 15.8 m (11.7 m)                       | 4739-0045      |
| 05  | CDRH127-6R1NC | 6R1   | 6.1 μH $\begin{smallmatrix} + 40 \\ - 20 \end{smallmatrix} \%$ | 6.60                       | 17.6 m (13.0 m)                       | 4739-0056      |
| 06  | CDRH127-7R6NC | 7R6   | 7.6 μH $\begin{smallmatrix} + 40 \\ - 20 \end{smallmatrix} \%$ | 5.90                       | 20.0 m (15.0 m)                       | 4739-0067      |
| 07  | CDRH127-100MC | 100   | 10 μH $\pm 20 \%$                                              | 5.40                       | 21.6 m (16.0 m)                       | 4739-0078      |
| 08  | CDRH127-120MC | 120   | 12 μH $\pm 20 \%$                                              | 4.90                       | 24.3 m (18.0 m)                       | 4739-0089      |
| 09  | CDRH127-150MC | 150   | 15 μH $\pm 20 \%$                                              | 4.50                       | 27.0 m (20.0 m)                       | 4739-0091      |
| 10  | CDRH127-180MC | 180   | 18 μH $\pm 20 \%$                                              | 3.90                       | 39.2 m (29.0 m)                       | 4739-0102      |
| 11  | CDRH127-220MC | 220   | 22 μH $\pm 20 \%$                                              | 3.60                       | 43.2 m (32.0 m)                       | 4739-0113      |
| 12  | CDRH127-270MC | 270   | 27 μH $\pm 20 \%$                                              | 3.40                       | 45.9 m (34.0 m)                       | 4739-0124      |
| 13  | CDRH127-330MC | 330   | 33 μH $\pm 20 \%$                                              | 3.00                       | 64.8 m (48.0 m)                       | 4739-0135      |
| 14  | CDRH127-390MC | 390   | 39 μH $\pm 20 \%$                                              | 2.75                       | 72.9 m (54.0 m)                       | 4739-0146      |
| 15  | CDRH127-470MC | 470   | 47 μH $\pm 20 \%$                                              | 2.50                       | 0.10 (76.0 m)                         | 4739-0157      |
| 16  | CDRH127-560MC | 560   | 56 μH $\pm 20 \%$                                              | 2.35                       | 0.11 (83.0 m)                         | 4739-0281      |
| 17  | CDRH127-680MC | 680   | 68 μH $\pm 20 \%$                                              | 2.10                       | 0.14 (0.10)                           | 4739-0292      |
| 18  | CDRH127-820MC | 820   | 82 μH $\pm 20 \%$                                              | 1.95                       | 0.16 (0.12)                           | 4739-0303      |
| 19  | CDRH127-101MC | 101   | 100 μH $\pm 20 \%$                                             | 1.70                       | 0.22 (0.17)                           | 4739-0314      |
| 20  | CDRH127-121MC | 121   | 120 μH $\pm 20 \%$                                             | 1.60                       | 0.25 (0.18)                           | 4739-0325      |

|                    |        |            |             |      |                              |
|--------------------|--------|------------|-------------|------|------------------------------|
| 17 th SEP . , 1996 |        |            | SUMIDA CODE | 4739 | DEG NO. 4/6<br><br>S-074-516 |
| C H K.             | C H K. | D R G.     |             |      |                              |
| O.SATO             | MAKABE | MONMA<br>M |             |      |                              |

# SPECIFICATION

|      |         |
|------|---------|
| TYPE | CDRH127 |
|------|---------|

## ELECTRICAL CHARACTERISTICS

| NO. | PART NO.      | STAMP | INDUCTANCE<br>[WITHIN] | RATED<br>CURRENT<br>(A) ※1 | D.C.R.<br>(Ω , at 20°C)<br>MAX. (TYP.) | SUMIDA<br>CODE |
|-----|---------------|-------|------------------------|----------------------------|----------------------------------------|----------------|
| 21  | CDRH127-151MC | 151   | 150 μH ± 20 %          | 1.42                       | 0.28 (0.21)                            | 4739-0336      |
| 22  | CDRH127-181MC | 181   | 180 μH ± 20 %          | 1.30                       | 0.35 (0.26)                            | 4739-0347      |
| 23  | CDRH127-221MC | 221   | 220 μH ± 20 %          | 1.16                       | 0.39 (0.29)                            | 4739-0358      |
| 24  | CDRH127-271MC | 271   | 270 μH ± 20 %          | 1.06                       | 0.56 (0.42)                            | 4739-0369      |
| 25  | CDRH127-331MC | 331   | 330 μH ± 20 %          | 0.95                       | 0.64 (0.47)                            | 4739-0370      |
| 26  | CDRH127-391MC | 391   | 390 μH ± 20 %          | 0.88                       | 0.70 (0.52)                            | 4739-0381      |
| 27  | CDRH127-471MC | 471   | 470 μH ± 20 %          | 0.79                       | 0.98 (0.73)                            | 4739-0392      |
| 28  | CDRH127-561MC | 561   | 560 μH ± 20 %          | 0.73                       | 1.07 (0.79)                            | 4739-0403      |
| 29  | CDRH127-681MC | 681   | 680 μH ± 20 %          | 0.67                       | 1.46 (1.12)                            | 4739-0414      |
| 30  | CDRH127-821MC | 821   | 820 μH ± 20 %          | 0.60                       | 1.64 (1.26)                            | 4739-0425      |
| 31  | CDRH127-102MC | 102   | 1.0 mH ± 20 %          | 0.55                       | 1.82 (1.40)                            | 4739-0436      |

MEASURED FREQUENCY L      1.2 μH ~ 7.6 μH ; at 100 kHz  
 10 μH ~ 1 mH ; at 1 kHz

※1: THIS INDICATES THE VALUE OF CURRENT WHEN THE INDUCTANCE IS 75% MORE THAN IT'S NOMINAL VALUE AND TEMPERATURE RISING Δt=40℃ LOWER AT D.C. SUPERPOSITION. (Ta=20℃)

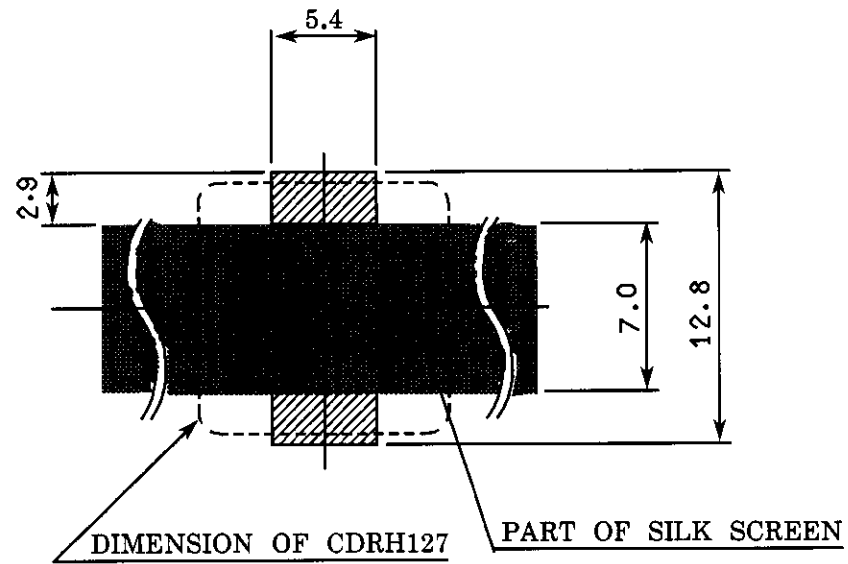
|                    |        |            |             |      |                              |
|--------------------|--------|------------|-------------|------|------------------------------|
| 17 th SEP . , 1996 |        |            | SUMIDA CODE | 4739 | DEG NO. 5/6<br><br>S-074-516 |
| C H K.             | C H K. | D R G.     |             |      |                              |
| O.SATO             | MAKABE | MONMA<br>M |             |      |                              |

# SPECIFICATION

TYPE

CDRH127

DIMENSION RECOMMENDED (mm)



PLEASE COAT WITH SILK BETWEEN ELECTRODE.  $\triangle$

7 th SEP . , 1995

| C H K. | C H K.  | D R G. |
|--------|---------|--------|
| KOMA   |         |        |
| ITA    | Y.OKADA | MONMA  |
|        |         | M      |

DRG. NO.

6/6

S-074-516