

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

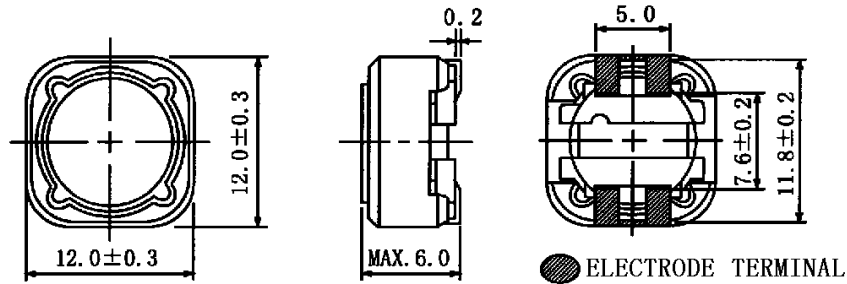
[Sumida Corporation](#)  
[CDRH125-100MC](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

| SPECIFICATION |                     |                                      |
|---------------|---------------------|--------------------------------------|
|               | SUMIDA TYPE CDRH125 | PART NO. REF. TO THE ATTACHED SHEET. |

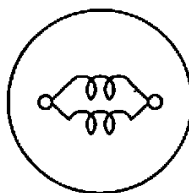
#### 1. DIMENSION (UNIT mm)



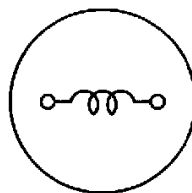
\* DIMENSION WITHOUT TOLERANCE ARE APPROX.

#### 2. CONNECTION (BOTTOM)

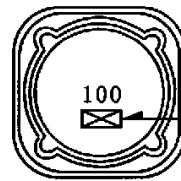
#### 3. STAMP (Ex.)



10 µH ~ 47 µH



56 µH ~ 1 mH



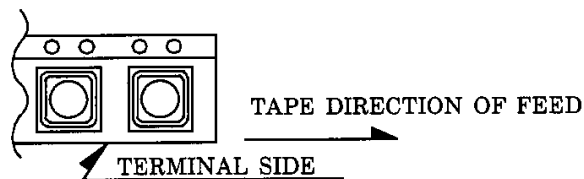
DATE CODE

DIRECTLY STAMP  
UNFIXED THE POSITION

#### 4. NOTE

\* PLEASE DO NOT USE A WASHING AGENT.

\* ENCLOSING CONDITION OF COILS.



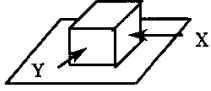
\* CARRIER TAPE PACKING SPECIFICATION IN DETAIL.(S-074-500)

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

|                    |             |             |             |      |                               |
|--------------------|-------------|-------------|-------------|------|-------------------------------|
| 22 nd JUN . , 1994 |             |             | SUMIDA CODE | 4735 | DRG. NO. 2/5<br><br>S-074-501 |
| C H K.             | C H K.      | D R G.      |             |      |                               |
| O.SATO             | KOMA<br>ITA | SUZUKI<br>K |             |      |                               |

|      |         |
|------|---------|
| TYPE | CDRH125 |
|------|---------|

## GENERAL CHARACTERISTICS

1. STORAGE TEMPERATURE RANGE :  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$   $\Delta$
2. OPERATING TEMPERATURE :  $-25 \sim +80^{\circ}\text{C}$  (COIL CONTAIN HEAT)
3. EXTERNAL APPEARANCE : ON VISUAL INSPECTION, THE COIL HAS NO EXTERNAL DEFECTS.
4. ELECTRODE STRENGTH  $\Delta$  : AFTER SOLDERING, BETWEEN COPPER PLATE AND ELECTRODE OF COIL, PUSH IN THREE DIRECTIONS OF X, Y WITHSTANDING 4.9N(0.5kgf) FOR  $10 \pm 2$  SECONDS. ELECTRODE SHOULD NOT PEEL OFF. (REFER TO FIGURE AT RIGHT)
 
5. HEAT ENDURANCE TEST: REFER TO THE S-074-5002.
6. DIELECTRIC STRENGTH : NO APPARENT AT 100V D.C. FOR 1 MINUTE BETWEEN COIL-CORE.
7. INSULATING RESISTANCE : OVER 100M $\Omega$  AT 100V D.C. BETWEEN COIL-CORE.
8. INDUCTANCE TEMPERATURE COEFFICIENT :  $(0 \sim 2000) \times 10^{-6}/^{\circ}\text{C}$  ( $-25 \sim +80^{\circ}\text{C}$ )
9. 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.
10. 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.
11. SHOCK TEST : INDUCTANCE DEVIATION WITHIN  $\pm 3.0\%$  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.

7 th DEC . , 1993

| CH K.  | CH K.  | DR G.      |
|--------|--------|------------|
| O.SATO | SUZUKI | MONMA<br>S |

|           |     |
|-----------|-----|
| DRG. NO.  | 3/5 |
| S-074-501 |     |

# SPECIFICATION

|      |         |
|------|---------|
| TYPE | CDRH125 |
|------|---------|

## ELECTRICAL CHARACTERISTICS

| NO. | PART NO.       | STAMP | INDUCTANCE<br>[WITHIN]<br>※1 | D.C.R.<br>(Ω) [MAX.]<br>(at 20°C)<br>(TYPICAL BALUE) | RATED<br>CURRENT<br>(A)<br>※2 | SUMIDA<br>CODE |
|-----|----------------|-------|------------------------------|------------------------------------------------------|-------------------------------|----------------|
| 01  | CDRH125-100 MC | 100   | 10 μH ± 20 %                 | 25 m (19 m)                                          | 4.00                          | -0001          |
| 02  | CDRH125-120 MC | 120   | 12 μH ± 20 %                 | 27 m (21 m)                                          | 3.50                          | -0012          |
| 03  | CDRH125-150 MC | 150   | 15 μH ± 20 %                 | 30 m (23 m)                                          | 3.30                          | -0023          |
| 04  | CDRH125-180 MC | 180   | 18 μH ± 20 %                 | 34 m (26 m)                                          | 3.00                          | -0034          |
| 05  | CDRH125-220 MC | 220   | 22 μH ± 20 %                 | 36 m (28 m)                                          | 2.80                          | -0045          |
| 06  | CDRH125-270 MC | 270   | 27 μH ± 20 %                 | 51 m (39 m)                                          | 2.30                          | -0056          |
| 07  | CDRH125-330 MC | 330   | 33 μH ± 20 %                 | 57 m (44 m)                                          | 2.10                          | -0067          |
| 08  | CDRH125-390 MC | 390   | 39 μH ± 20 %                 | 68 m (52 m)                                          | 2.00                          | -0078          |
| 09  | CDRH125-470 MC | 470   | 47 μH ± 20 %                 | 75 m (58 m)                                          | 1.80                          | -0089          |
| 10  | CDRH125-560 MC | 560   | 56 μH ± 20 %                 | 0.11 (84 m)                                          | 1.70                          | -0090          |
| 11  | CDRH125-680 MC | 680   | 68 μH ± 20 %                 | 0.12 (93 m)                                          | 1.50                          | -0101          |
| 12  | CDRH125-820 MC | 820   | 82 μH ± 20 %                 | 0.14 (0.11)                                          | 1.40                          | -0112          |
| 13  | CDRH125-101 MC | 101   | 100 μH ± 20 %                | 0.16 (0.12)                                          | 1.30                          | -0123          |
| 14  | CDRH125-121 MC | 121   | 120 μH ± 20 %                | 0.17 (0.13)                                          | 1.10                          | -0134          |
| 15  | CDRH125-151 MC | 151   | 150 μH ± 20 %                | 0.23 (0.18)                                          | 1.00                          | -0145          |
| 16  | CDRH125-181 MC | 181   | 180 μH ± 20 %                | 0.29 (0.22)                                          | 0.90                          | -0156          |
| 17  | CDRH125-221 MC | 221   | 220 μH ± 20 %                | 0.40 (0.31)                                          | 0.80                          | -0167          |
| 18  | CDRH125-271 MC | 271   | 270 μH ± 20 %                | 0.46 (0.35)                                          | 0.75                          | -0178          |
| 19  | CDRH125-331 MC | 331   | 330 μH ± 20 %                | 0.51 (0.39)                                          | 0.68                          | -0189          |
| 20  | CDRH125-391 MC | 391   | 390 μH ± 20 %                | 0.69 (0.53)                                          | 0.65                          | -0191          |
| 21  | CDRH125-471 MC | 471   | 470 μH ± 20 %                | 0.77 (0.59)                                          | 0.58                          | -0202          |
| 22  | CDRH125-561 MC | 561   | 560 μH ± 20 %                | 0.86 (0.66)                                          | 0.54                          | -0213          |
| 23  | CDRH125-681 MC | 681   | 680 μH ± 20 %                | 1.20 (0.92)                                          | 0.48                          | -0224          |
| 24  | CDRH125-821 MC | 821   | 820 μH ± 20 %                | 1.34 (1.03)                                          | 0.43                          | -0235          |
| 25  | CDRH125-102 MC | 102   | 1.0 mH ± 20 %                | 1.53 (1.18)                                          | 0.40                          | -0246          |

※1: MEASURED FREQUENCY L at 1 kHz

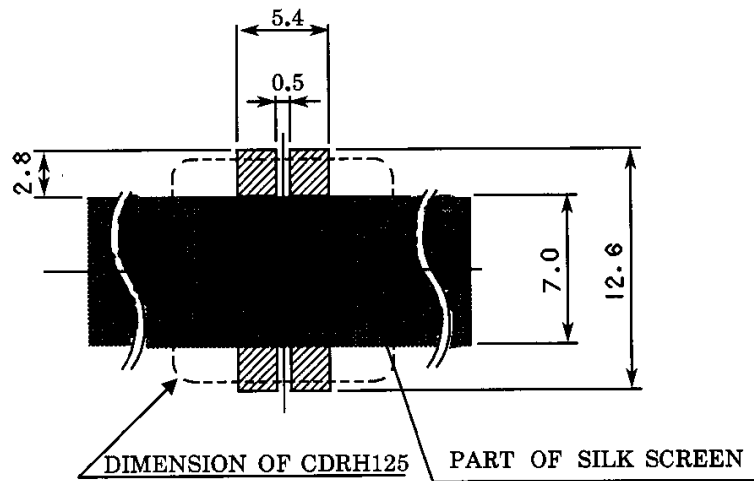
※2: THIS INDICATES THE VALUE OF CURRENT WHEN THE INDUCTANCE IS 75% MORE THAN IT'S NOMINAL VALUE AND TEMPERATURE RISING Δt=40℃ LOWER AT D.C. SUPERPOSITION. (Ta=20℃)

|                   |        |            |             |      |                                     |
|-------------------|--------|------------|-------------|------|-------------------------------------|
| 7 th DEC . , 1993 |        |            | SUMIDA CODE | 4735 | DEG NO.<br><br>4/5<br><br>S-074-501 |
| C H K.            | C H K. | D R G.     |             |      |                                     |
| O.SATO            | SUZUKI | MONMA<br>S |             |      |                                     |

# SPECIFICATION

|      |         |
|------|---------|
| TYPE | CDRH125 |
|------|---------|

DIMENSION RECOMMENDED (mm)



PLEASE COAT WITH SILK BETWEEN ELECTRODE. 

7 th DEC . , 1993

| C H K. | C H K. | D R G.     |
|--------|--------|------------|
| O.SATO | SUZUKI | MONMA<br>S |

|           |     |
|-----------|-----|
| DRG. NO.  | 5/5 |
| S-074-501 |     |