

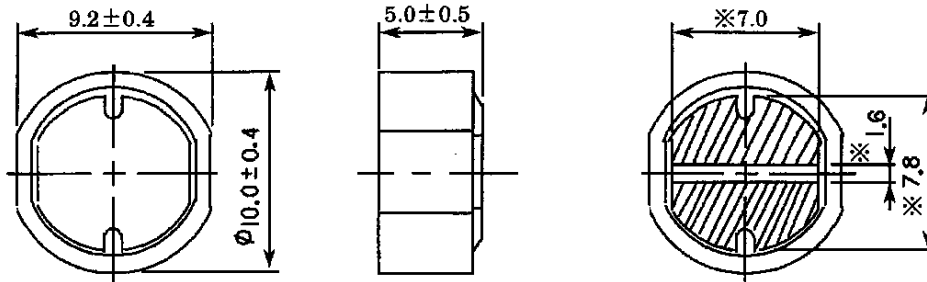


**THE DATASHEET OF
CDR105-100MC**



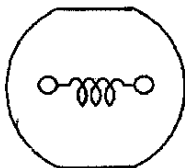
| | | |
|----------------------|--------|---|
| SPECIFICATION | | |
| SUMIDA TYPE | CDR105 | PART NO. REF. TO IN THE ATTACHED SHEET. |

1. DIMENSION (UNIT mm)

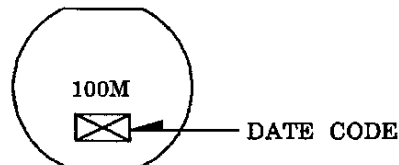


※ DIMENSION OF TERMINAL IS TYPICAL

2. CONNECTION (BOTTOM)



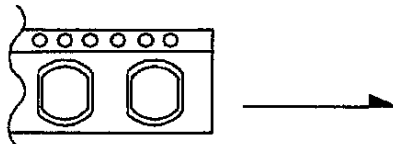
3. STAMP (Ex.)



DIRECTLY STAMP
UNFIXED THE POSITION

4. NOTE

*ENCLOSING CONDITION OF COILS.



*CARRIER TAPE PACKING SPECIFICATION IN DETAIL.(S-074-404)

*RECOMMENDATION

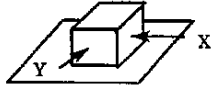
DUE TO THE COIL WEIGHT. PLEASE APPLY BOND ONTO THIS COIL PART WHEN FIXED ONTO THE PCB.

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

| | | | | | |
|-----------------|-------------|------------|-------------|------|--------------|
| 3 rd SEP., 1993 | | | SUMIDA CODE | 4721 | |
| CH K. | CH K. | DR G. | | | DRG. NO. 2/5 |
| O.SATO | KOMA ITA | KIKYO A | | | S-074-428 |

SUMIDA TECHNOLOGIES INCORPORATED

| | |
|-------------------------|----------------|
| GENERAL CHARACTERISTICS | TYPE CDR105 |
|-------------------------|----------------|

1. OPERATING TEMPERATURE : -25 ~ +70 °C (COIL CONTAIN HEAT)
2. EXTERNAL APPEARANCE : ON VISUAL INSPECTION, THE COIL HAS NO EXTERNAL DEFECTS.
3. TERMINAL STRENGTH : AFTER SOLDERING, BETWEEN COPPER PLATE AND TERMINAL OF COIL, PUSH IN THREE DIRECTIONS OF X, Y WITHSTANDING 15.0N (1.53kgf) FOR 10±2 SECONDS. TERMINAL SHOULD NOT PEEL OFF. (REFER TO FIGURE AT RIGHT)
 
4. HEAT ENDURANCE TEST: REFER TO 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) × 10⁻⁶/°C (-25 ~ + 70 °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 ± 2.0 % AFTER VIBRATION FOR 2 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 ± 2.0 % AFTER DROP DOWN WITH 981m/s²(100G) SHOCK ATTITUDE UPON A RUBBER BLOCK METHOD SHOCK TESTING MACHINE, FOR 1 TIME, IN EACH OF THREE ORIENTATIONS.

3 rd SEP ., 1993

| CHK. | CHK. | DRG. |
|--------|-------------|------------|
| O.SATO | KOMA ITA | KIKYO A |

| | |
|-----------|-----|
| DRG. NO. | 3/5 |
| S-074-428 | |

SUMIDA TECHNOLOGIES INCORPORATED

| | |
|----------------------|-----------------------|
| SPECIFICATION | TYPE CDR105 |
|----------------------|-----------------------|

ELECTRICAL CHARACTERISTICS

| NO. | PART NO. | STAMP | INDUCTANCE [WITHIN] ※1 | D.C.R. (Ω) [MAX.] (at 20°C) | RATED CURRENT (A) ※2 | S.R.F. (MHz) [TYP.] | SUMIDA CODE |
|-----|--------------|-------|--------------------------------|--|-------------------------------|-----------------------------|----------------|
| 01 | CDR105-100MC | 100M | 10 μH +20 -15 % | 0.06 | 2.53 | 31 | 4721-0015 |
| 02 | CDR105-120MC | 120M | 12 μH +20 -15 % | 0.06 | 2.31 | 27 | 4721-0026 |
| 03 | CDR105-150MC | 150M | 15 μH +20 -15 % | 0.07 | 2.06 | 27 | 4721-0037 |
| 04 | CDR105-180MC | 180M | 18 μH +20 -15 % | 0.08 | 1.89 | 26 | 4721-0048 |
| 05 | CDR105-220MC | 220M | 22 μH +20 -15 % | 0.09 | 1.71 | 21 | 4721-0059 |
| 06 | CDR105-270MC | 270M | 27 μH +20 -15 % | 0.11 | 1.54 | 18 | 4721-0060 |
| 07 | CDR105-330MC | 330M | 33 μH +20 -15 % | 0.12 | 1.39 | 16 | 4721-0071 |
| 08 | CDR105-390MC | 390M | 39 μH +20 -15 % | 0.16 | 1.28 | 15 | 4721-0082 |
| 09 | CDR105-470MC | 470M | 47 μH +20 -15 % | 0.18 | 1.17 | 14 | 4721-0093 |
| 10 | CDR105-560MC | 560M | 56 μH +20 -15 % | 0.19 | 1.07 | 12 | 4721-0104 |
| 11 | CDR105-680MC | 680M | 68 μH +20 -15 % | 0.22 | 0.97 | 11 | 4721-0115 |
| 12 | CDR105-820MC | 820M | 82 μH +20 -15 % | 0.28 | 0.88 | 10 | 4721-0126 |
| 13 | CDR105-101MC | 101M | 100 μH +20 -15 % | 0.35 | 0.80 | 7 | 4721-0137 |
| 14 | CDR105-121MC | 121M | 120 μH +20 -15 % | 0.38 | 0.73 | 6.5 | 4721-0148 |
| 15 | CDR105-151MC | 151M | 150 μH +20 -15 % | 0.45 | 0.65 | 5.8 | 4721-0159 |
| 16 | CDR105-181MC | 181M | 180 μH +20 -15 % | 0.62 | 0.60 | 5.3 | 4721-0161 |
| 17 | CDR105-221MC | 221M | 220 μH +20 -15 % | 0.69 | 0.54 | 5.2 | 4721-0172 |
| 18 | CDR105-271MC | 271M | 270 μH +20 -15 % | 0.78 | 0.49 | 4.6 | 4721-0183 |
| 19 | CDR105-331MC | 331M | 330 μH +20 -15 % | 1.03 | 0.44 | 4.2 | 4721-0194 |
| 20 | CDR105-391MC | 391M | 390 μH +20 -15 % | 1.18 | 0.41 | 3.6 | 4721-0205 |
| 21 | CDR105-471MC | 471M | 470 μH +20 -15 % | 1.60 | 0.37 | 3.6 | 4721-0216 |

※1: MEASURED FREQUENCY L 10 μH ~ 82 μH ; at 2.52 MHz
100 μH ~ 470 μH ; at 1 kHz

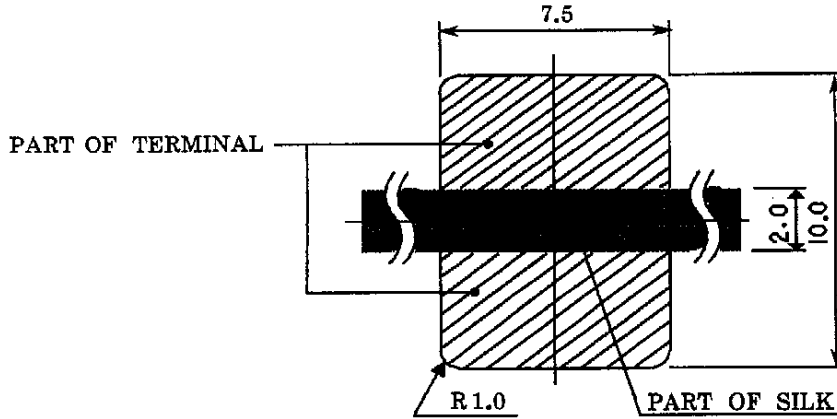
※2: UNDER D.C. PRE-MAGNETIZATION CHARACTERISTICS, IN TERMS OF RATED CURRENT, THE INDUCTANCE SHOULD NOT LESS THAN 80 % OF THE ORIGINAL VALUE, AND HEAT-UP, CHANGE OF TEMPERATURE SHOULD BE BELOW 40°C. (TEMPERATURE STANDARD ; Ta=20°C)

| | | | | |
|-----------------|-------------|--------|-------------------------------------|------|
| 3 rd SEP., 1993 | | | SUMIDA CODE | 4721 |
| C H K. | C H K. | D R G. | DEG NO. 4/5 S-074-428 | |
| O.SATO | KOMA ITA | KIKYO | | |
| | | A | | |

SUMIDA TECHNOLOGIES INCORPORATED

| | |
|---------------|----------------|
| SPECIFICATION | TYPE CDR105 |
|---------------|----------------|

DIMENSION RECOMMENDED (mm)



PLEASE COAT WITH SILK BETWEEN TERMINAL.

THICKNESS OF METALMASK RECOMMENDED 0.2t

3 rd SEP., 1993

| C H K. | C H K. | D R G. |
|--------|-------------|------------|
| O.SATO | KOMA ITA | KIKYO A |

| | |
|------------------|-----|
| DRG. NO. | 5/5 |
| S-074-428 | |

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- ⊖ [Sumida America Components Inc. Information](#)

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- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management