Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

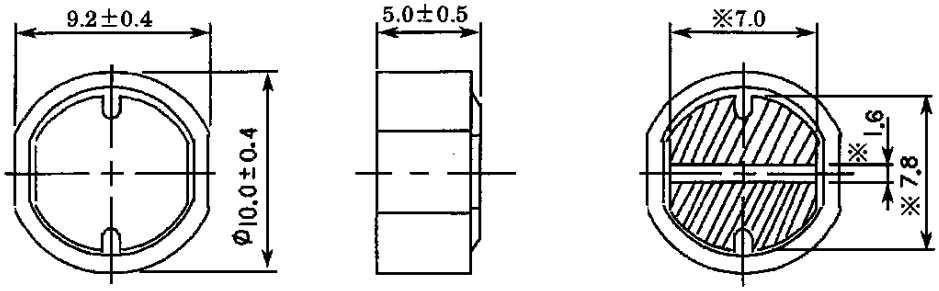
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

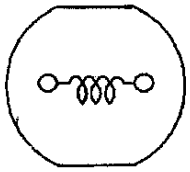
	SPECIFICATION	
	SUMIDA TYPE CDR105	PART NO. REF. TO IN THE ATTACHED SHEET.

1. DIMENSION (UNIT mm)

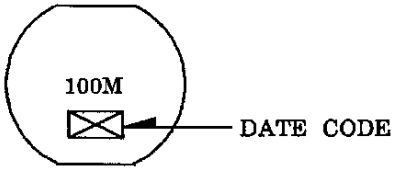


※ DIMENSION OF TERMINAL IS TYPICAL

2. CONNECTION (BOTTOM)



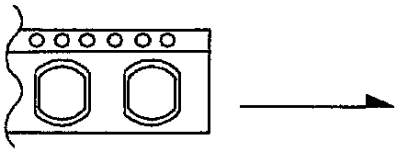
3. STAMP (Ex.)



DIRECTLY STAMP
UNFIXED THE POSITION

4. NOTE

* ENCLOSING CONDITION OF COILS.



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

* RECOMMENDATION
DUE TO THE COIL WEIGHT. PLEASE APPLY BOND ONTO THIS COIL PARF WHEN FIXED ONTO THE PCB.

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

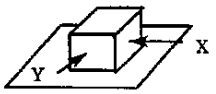
3 rd SEP., 1993			SUMIDA CODE 4721	
C H K.	C H K.	D R G.		DRG. NO. 2/5
O.SATO	KOMA ITA	KIKYO A		S-074-428

GENERAL CHARACTERISTICS	TYPE CDR105

1. OPERATIONG TEMPERATURE : −25 ~ +70 ℃ (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}/℃ (−25 ~ + 70 ℃)

8. HUMIDITY TEST : INDUCTANCE DEVIATION WITHIN ± 5.0 %

AFTER 96 HOURS IN 90 ~ 95 % RELATIVE HUMIDITY AT 40 ± 2 ℃ 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/s^2 (100G) SHOCK ATTITUDE UPON A RUBBER BLOCK METHOD SHOCK TESTING MACHINE, FOR 1 TIME, IN EACH OF THREE ORIENTATIONS.

3 rd SEP., 1993

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

DRG. NO. 3/5

S−074−428

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	CDR10Ø5-1ØØMC	100M	10 μH $^{+20}_{-15}$ %	0.06	2.53	31	4721-0015
02	CDR10Ø5-12ØMC	120M	12 μH $^{+20}_{-15}$ %	0.06	2.31	27	4721-0026
03	CDR10Ø5-15ØMC	150M	15 μH $^{+20}_{-15}$ %	0.07	2.06	27	4721-0037
04	CDR10Ø5-18ØMC	180M	18 μH $^{+20}_{-15}$ %	0.08	1.89	26	4721-0048
05	CDR10Ø5-22ØMC	220M	22 μH $^{+20}_{-15}$ %	0.09	1.71	21	4721-0059
06	CDR10Ø5-27ØMC	270M	27 μH $^{+20}_{-15}$ %	0.11	1.54	18	4721-0060
07	CDR10Ø5-33ØMC	330M	33 μH $^{+20}_{-15}$ %	0.12	1.39	16	4721-0071
08	CDR10Ø5-39ØMC	390M	39 μH $^{+20}_{-15}$ %	0.16	1.28	15	4721-0082
09	CDR10Ø5-47ØMC	470M	47 μH $^{+20}_{-15}$ %	0.18	1.17	14	4721-0093
10	CDR10Ø5-56ØMC	560M	56 μH $^{+20}_{-15}$ %	0.19	1.07	12	4721-0104
11	CDR10Ø5-68ØMC	680M	68 μH $^{+20}_{-15}$ %	0.22	0.97	11	4721-0115
12	CDR10Ø5-82ØMC	820M	82 μH $^{+20}_{-15}$ %	0.28	0.88	10	4721-0126
13	CDR10Ø5-1Ø1MC	101M	100 μH $^{+20}_{-15}$ %	0.35	0.80	7	4721-0137
14	CDR10Ø5-121MC	121M	120 μH $^{+20}_{-15}$ %	0.38	0.73	6.5	4721-0148
15	CDR10Ø5-151MC	151M	150 μH $^{+20}_{-15}$ %	0.45	0.65	5.8	4721-0159
16	CDR10Ø5-181MC	181M	180 μH $^{+20}_{-15}$ %	0.62	0.60	5.3	4721-0161
17	CDR10Ø5-221MC	221M	220 μH $^{+20}_{-15}$ %	0.69	0.54	5.2	4721-0172
18	CDR10Ø5-271MC	271M	270 μH $^{+20}_{-15}$ %	0.78	0.49	4.6	4721-0183
19	CDR10Ø5-331MC	331M	330 μH $^{+20}_{-15}$ %	1.03	0.44	4.2	4721-0194
20	CDR10Ø5-391MC	391M	390 μH $^{+20}_{-15}$ %	1.18	0.41	3.6	4721-0205
21	CDR10Ø5-471MC	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

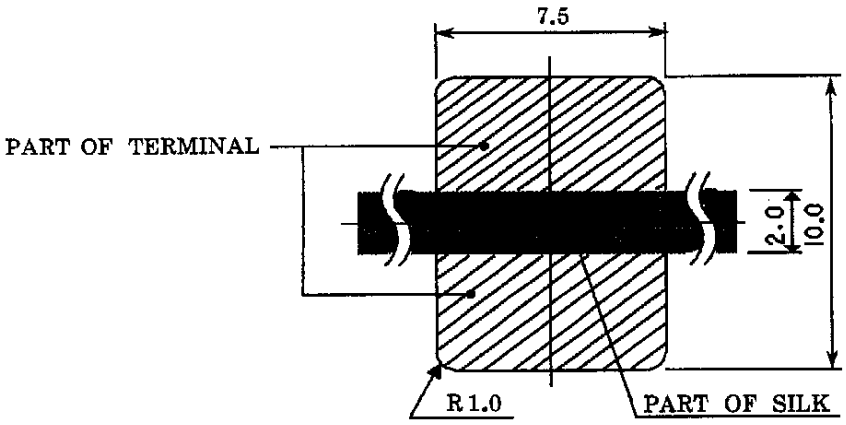
SUMIDA CODE	4721

C H K.	C H K.	D R G.		DEG NO. 4/5
O.SATO	KOMA ITA	KIKYO A		S-074-428

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

SUMIDA TECHNOLOGIES INCORPORATED