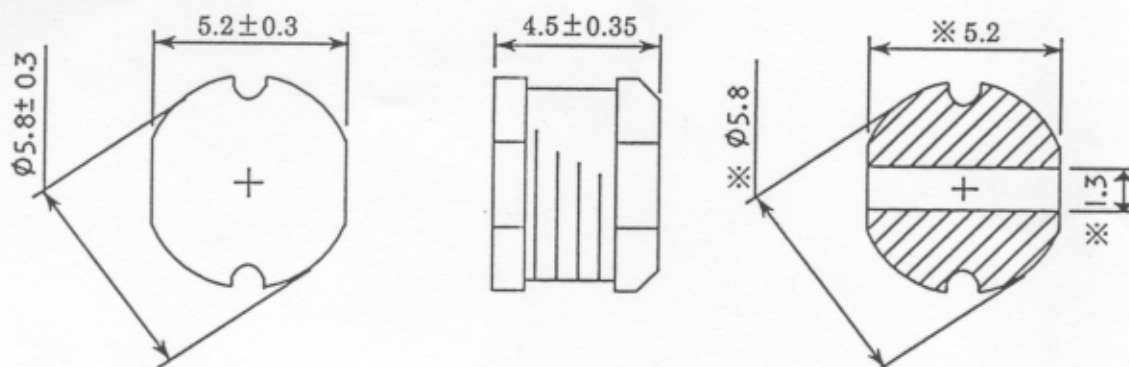


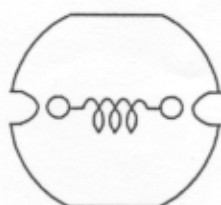
	SPECIFICATION		
	SUMIDA TYPE	CD54	PART NO. REF. TO THE ATTACHED SHEET

1. DIMENSION (UNIT mm)

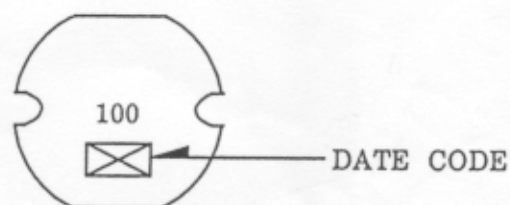


※ DIMENSION OF TERMINAL IS TYPICAL

2. CONNECTION (BOTTOM)



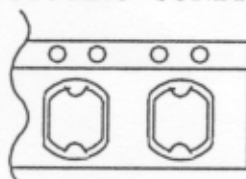
3. STAMP (Ex.)



DIRECTLY STAMP
UNFIXED THE POSITION

4. NOTE

*ENCLOSING CONDITION OF COILS.

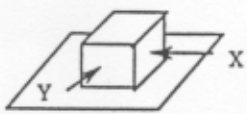


*CARRIER TAPE PACKING SPECIFICATION IN DETAIL.(S-074-417)

16 th SEP ., 1993			SUMIDA CODE	4718	SAMPLE NO.	9 1 X - 0 2 2
C H K.	C H K.	D R G.	K;'95.3.8社内用変更・追記 鈴木		DRG. NO.	2/6
ABE	KOMA	KIKYO	J;'94.11.10社内用追記 鈴木(幸)		S-074-423-L	
	ITA		I;'94.3.22社内用追記 鈴木(幸)			
	93,9,20		H;'93.9.22様式変更差しかえ 駒板			
93,9,20	93,9,20 U					

SUMIDA ELECTRIC CO.,LTD.

GENERAL CHARACTERISTICS	TYPE CD54
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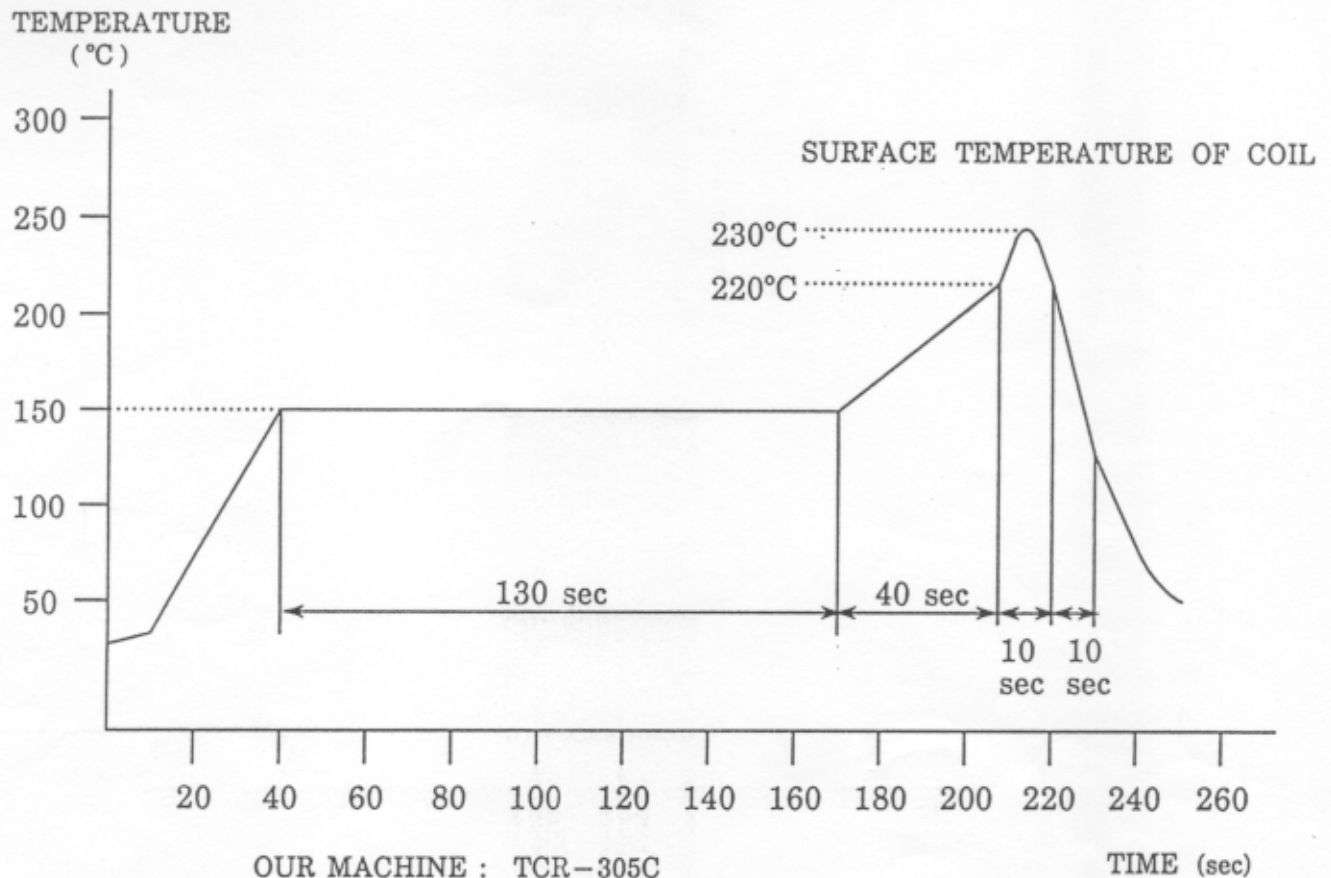
1. OPERATIONG TEMPERATURE : $\Delta -30 \sim +100^{\circ}\text{C}$ (COIL CONTAIN HEAT)
2. EXTERNAL APPEARANCE : ON VISUAL INSPECTION, THE COIL HAS NO EXTERNAL DEFECTS.
3. TERMINAL STRENGTH : AFTER SOLDERING, BETWEEN COPPER PLATE AND TERMINAL OF COIL, PUSH IN TWO DIRECTIONS OF X, Y WITHSTANDING 9.8N(1kgf) FOR 10 ± 2 SECONDS. TERMINAL SHOULD NOT PEEL OFF. (REFER TO FIGURE AT RIGHT)
 
4. HEAT ENDURANCE TEST: REFER TO IN THE ATTACHED SHEET.
5. DIELECTRIC STRENGTH : NO APPARENT AT 100V D.C. FOR 1 MINUTE BETWEEN COIL-CORE.
6. INSULATING RESISTANCE : OVER $100\text{M}\Omega$ AT 100V D.C. BETWEEN COIL-CORE.
7. INDUCTANCE TEMPERATURE COEFFICIENT : $(0 \sim 2000) \times 10^{-6}/^{\circ}\text{C}$ ($-25 \sim +70^{\circ}\text{C}$)
8. HUMIDITY TEST : INDUCTANCE DEVIATION WITHIN $\pm 5.0\%$ AFTER 96 HOURS IN $90 \sim 95\%$ RELATIVE HUMIDITY AT $40 \pm 2^{\circ}\text{C}$ AND 1 HOUR DRYING UNDER NORMAL CONDITION.
9. VIBRATION TEST : INDUCTANCE DEVIATION WITHIN $\pm 2.0\%$ AFTER VIBRATION FOR 2 HOUR. IN EACH OF THREE ORIENTATIONS AT SWEEP VIBRATION ($10 \sim 55 \sim 10\text{Hz}$) WITH 1.5 mm P-P AMPLITUDE.
10. SHOCK TEST : INDUCTANCE DEVIATION WITHIN $\pm 2.0\%$ 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.

16 th SEP ., 1993		
CH K.	CH K.	DR G.
ABE	KOMA ITA	KIKYO
93,9,20	93,9,20	93,9,20 U

SAMPLE NO.	9 1 X - 0 2 2
DRG. NO.	3/6
S-074-423-L	

SUMIDA ELECTRIC CO.,LTD.

1. THE CONDITION OF REFLOW (RECOMMENDATION)

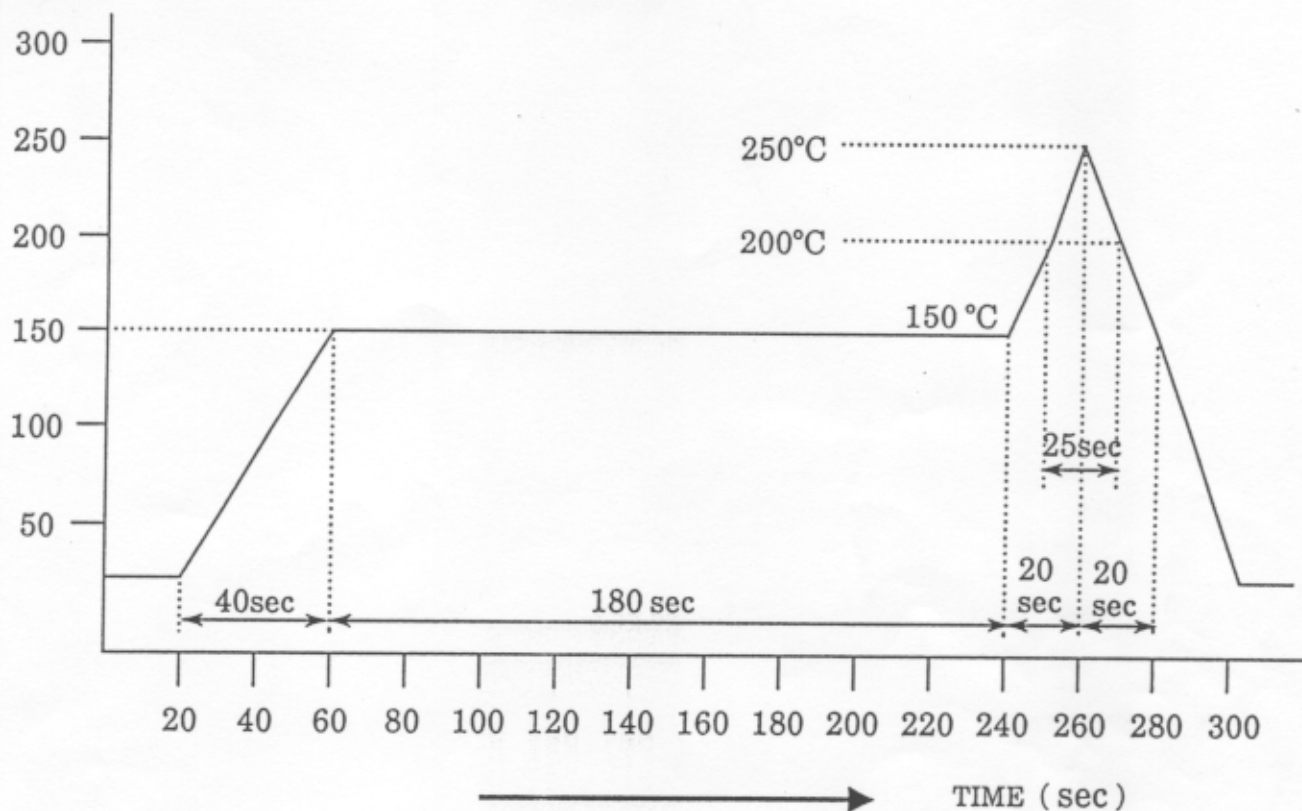


THE REFLOW CONDITION RECOMMENDED ABOVE IS ACCORDING TO THE MACHINE USED BY OUR COMPANY. BIG DIFFERENCES WILL ARISE AS A RESULT OF THE TYPE OF MACHINE, REFLOW CONDITIONS, METHOD, ETC USED. HENCE, BEFORE SETTING UP YOUR REFLOW CONDITIONS, PLEASE CONFIRM WITH THE ABOVE. MOREOVER, PLEASE CLEAR ALL DOUBTS WITH OUR COMPANY BEFORE STARTING.

S-074-423-L

HEAT ENDURANCE TEST

(TCR-305C)

TEMPERATURE
(°C)

A TEST IS MADE UNDER THE CONDITIONS MENTIONED ABOVE, AND IT IS LEFT FOR 2 HOURS IN THE NORMAL TEMPERATURE AND HUMIDITY. AFTER THAT, NO MECHANICAL AND ELECTRICAL DEFECT SHOULD BE FOUND OUT.

16 th SEP ., 1993

C H K.	C H K.	D R G.
ABE	KOMA ITA	KIKYO
93,9,20	93,9,20	93,9,20 U

SAMPLE NO. 91X-022

DRG. NO. 4/6

S-074-423-L

SUMIDA ELECTRIC CO.,LTD.

SPECIFICATION	TYPE CD54
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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	CD54-100MC	100	10 μ H $\pm$ 20 %	0.10	1.44	30.6	-0006
02	CD54-120MC	120	12 μ H $\pm$ 20 %	0.12	1.40	27.7	-0017
03	CD54-150MC	150	15 μ H $\pm$ 20 %	0.14	1.30	25.9	-0028
04	CD54-180MC	180	18 μ H $\pm$ 20 %	0.15	1.23	23.3	-0039
05	CD54-220MC	220	22 μ H $\pm$ 20 %	0.18	1.11	19.5	-0040
06	CD54-270MC	270	27 μ H $\pm$ 20 %	0.20	0.97	17.5	-0051
07	CD54-330LC	330	33 μ H $\pm$ 15 %	0.23	0.88	16.3	-0062
08	CD54-390LC	390	39 μ H $\pm$ 15 %	0.32	0.80	15.8	-0073
09	CD54-470LC	470	47 μ H $\pm$ 15 %	0.37	0.72	13.6	-0084
10	CD54-560KC	560	56 μ H $\pm$ 10 %	0.42	0.68	12.1	-0095
11	CD54-680KC	680	68 μ H $\pm$ 10 %	0.46	0.61	11.7	-0106
12	CD54-820KC	820	82 μ H $\pm$ 10 %	0.60	0.58	10.2	-0117
13	CD54-101KC	101	100 μ H $\pm$ 10 %	0.70	0.52	9.24	-0128
14	CD54-121KC	121	120 μ H $\pm$ 10 %	0.93	0.48	8.61	-0139
15	CD54-151KC	151	150 μ H $\pm$ 10 %	1.10	0.40	8.28	-0141
16	CD54-181KC	181	180 μ H $\pm$ 10 %	1.38	0.38	6.42	-0152
17	CD54-221KC	221	220 μ H $\pm$ 10 %	1.57	0.35	5.73	-0163

※ 1: MEASURED FREQUENCY L 10 μ H ~ 82 μ H ; at 2.52 MHz
 100 μ H ~ 220 μ H ; at 1 kHz

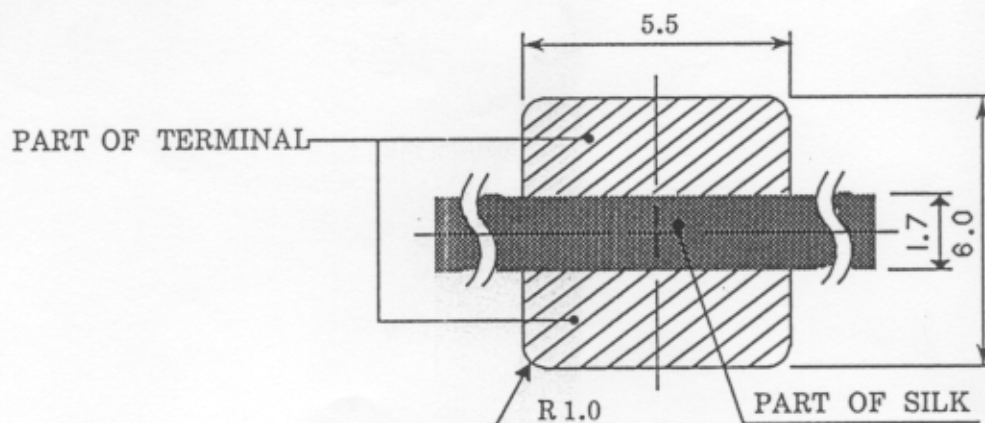
※ 2: AT VALUE OF INDUCTANCE WHEN IS 10% DOWN FROM FIRST VALUE AS
 CHARACTERISTICS OF D.C. SUPREPOSITION OR D.C. CURRENT WHEN
 TEMPERATURE OF COIL INCREASED UP TO 40°C. (Ta=20°C)

16 th SEP ., 1993			SUMIDA CODE	4718	SAMPLE NO.	9 1 X - 0 2 2	
C H K.	C H K.	D R G.				DEG NO.	5/6
ABE	KOMA ITA	KIKYO				S-074-423-L	
93,9,20	93,9,20	93,9,20 U					

SUMIDA ELECTRIC CO.,LTD.

SPECIFICATION	TYPE CD54
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DIMENSION RECOMMENDED (mm)



PLEASE COAT WITH SILK BETWEEN TERMINAL.

THICKNESS OF METALMASK RECOMMENDED 0.2 t

16 th SEP ., 1993		
C H K.	C H K.	D R G.
ABE	KOMA	KIKYO
93,9,20	93,9,20	93,9,20 U

SAMPLE NO.	9 1 X - 0 2 2
DRG. NO.	6/6
S-074-423-L	

SUMIDA ELECTRIC CO.,LTD.