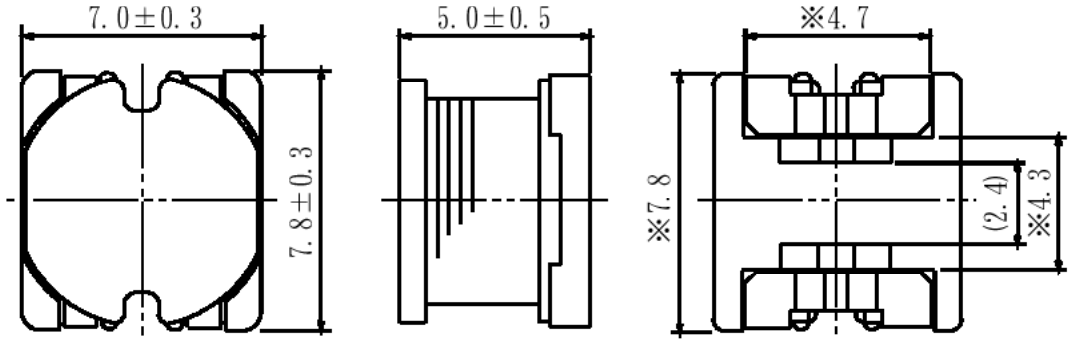
THE DATASHEET OF

CR75-120K

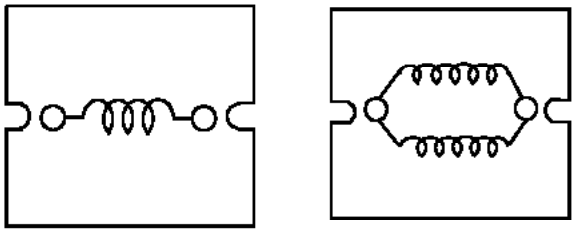
	SPECIFICATION	CUSTOMER :
	SUMIDA TYPE C R 7 5	PART NO. REF. TO THE ATTACHED SHEET

1 .DIMENSION (UNIT mm)



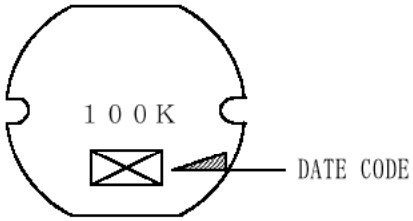
※ DIMENSION OF TERMINAL IS TYPICAL.

2 .CONNECTION (BOTTOM)



10μH～470μH 1.0μH～8.2μH

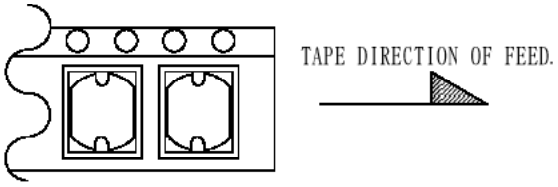
3 .STAMP (Ex.)



DIRECTLY STAMP
UNFIXED THE POSITION

4 .NOTE

* ENCLOSING CONDITION OF COILS.



* IN THE CASE OF BOX:BOX PACKING AFTER CARRIER TAPE PACKING. (NO REEL) ⚠
  IN THE CASE OF REEL:CARRIER TAPE PACKING SPECIFICATION IN DETAIL. (S-074-6007)
* RECOMMENDED REFLOW CONDITION TO BE ACCORDING TO S−074−5003.

19th, Feb., 1998	SUMIDA CODE	4752	
CHK.	CHK.	DRG.	DRG. NO. 2/8
SUNNY	FENG	DENG Y	S-074-6019

sumida

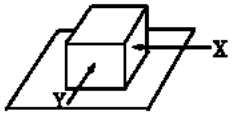
GENERAL CHARACTERISTICS

TYPE
CR75

1. OPERATING TEMPERATURE RANGE －３０～＋１００℃ (INDCLUDING HEAT PRODUCING FROM COIL.)

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 15N FOR 10±2 SECONDS. TERMINAL SHOULD NOT PEEL OFF. (REFER TO FIGURE AT RIGHT.)



4. HEAT ENDURANCE TEST REFER TO THE S-074-5002.

5. DIELECTRIC STRENGTH NO APPARENT AT 100V D.C. FOR 1 MINUTE BETWEEN COIL-CORE.

6. INSULATING RESISTANCE OVER 100MΩ AT 100V D.C. BETWEEN COIL-CORE.

7. INDUCTANCE TEMPERATURE COEFFICIENT (0 ～ 1250) ×10^{-6}／℃ (－25～＋70℃)

8. HUMIDITY TEST INDUCTANCE DEVIATION WITHIN ±2.0% AFTER PUTTING THE COIL INTO THE ENVIRONMENT OF 90～95% RELATIVE HUMIDITY AND TEMPERATURE OF 40±2℃ FOR 96 HOURS, THEN DRYING UNDER NORMAL CONDITION FOR 1 HOUR.

9. VIBRATION TEST INDUCTANCE DEVIATION WITHIN ±1.0% AFTER VIBRATION FOR 1 HOUR. IN EACH OF THE THREE ORIENTATIONS VERTICALLY EACH OTHER (X. Y. Z) AT SWEEP VIBRATION (10～55～10Hz) WITH 1.5mm P-P AMPLITUDE.

10. SHOCK TEST INDUCTANCE DEVIATION WITHIN ±1.0% TESTED IN EACH OF THE THREE ORIENTATIONS VERTICALLY FOR 1 TIME AT THE SHOCK ACCELERATION OF 981m/S^2, USING RUBBER BLOCK SHOCK TESTING MACHINE.

19th, Feb., 1998

CHK.	CHK.	DRG.
SUNNY	FENG	DENG Y

DRG. NO. 3/8

S-074-6019

sumida

SPECIFICATION

TYPE
CR75

ELECTRICAL CHARACTERISTICS Ⅰ(IN THE CASE OF REEL)

NO	PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (Ω) [MAX.] (at20℃)	RATED CURRENT (A)※2	S.R.F. (MHz) [TYP]	SUMIDA CODE
01	CR75-100KC	100K	10μH ± 10 %	0.07	2.3	28	4752-0005
02	CR75-120KC	120K	12μH ± 10 %	0.08	2.0	23	4752-0016
03	CR75-150KC	150K	15μH ± 10 %	0.09	1.8	22	4752-0027
04	CR75-180KC	180K	18μH ± 10 %	0.10	1.6	20	4752-0038
05	CR75-220KC	220K	22μH ± 10 %	0.11	1.5	17	4752-0049
06	CR75-270KC	270K	27μH ± 10 %	0.12	1.3	15	4752-0051
07	CR75-330KC	330K	33μH ± 10 %	0.13	1.2	15	4752-0062
08	CR75-390KC	390K	39μH ± 10 %	0.16	1.1	14	4752-0073
09	CR75-470KC	470K	47μH ± 10 %	0.18	1.1	13	4752-0084
10	CR75-560KC	560K	56μH ± 10 %	0.24	0.94	11	4752-0095
11	CR75-680KC	680K	68μH ± 10 %	0.28	0.85	11	4752-0106
12	CR75-820KC	820K	82μH ± 10 %	0.37	0.78	10	4752-0117
13	CR75-101KC	101K	100μH ± 10 %	0.43	0.72	9.2	4752-0128
14	CR75-121KC	121K	120μH ± 10 %	0.47	0.66	7.7	4752-0139
15	CR75-151KC	151K	150μH ± 10 %	0.64	0.58	6.1	4752-0140
16	CR75-181KC	181K	180μH ± 10 %	0.71	0.51	5.8	4752-0151
17	CR75-221KC	221K	220μH ± 10 %	0.96	0.49	5.2	4752-0162
18	CR75-271KC	271K	270μH ± 10 %	1.11	0.42	4.8	4752-0173
19	CR75-331KC	331K	330μH ± 10 %	1.26	0.40	4.3	4752-0184
20	CR75-391KC	391K	390μH ± 10 %	1.77	0.36	4.3	4752-0195
21	CR75-471KC	471K	470μH ± 10 %	1.96	0.34	3.8	4752-0206

19th, Feb., 1998 | SUMIDA CODE | 4752

CHK.	CHK.	DRG.		DRG. NO. 4/8
SUNNY	FENG	DENG Y		S-074-6019

sumida

SPECIFICATION

TYPE
CR75

NO	PART NO. △3	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX.] (at20℃)	RATED CURRENT (A) ※2	S.R.F. (MHz) [TYP]	SUMIDA CODE
22	CR75-1RØMC	1R0M	1.0μH ± 20 %	15.6	6.0	53.7	4752-0031
23	CR75-1R5MC	1R5M	1.5μH ± 20 %	17.0	5.5	45.6	4752-0032
24	CR75-1R8MC	1R8M	1.8μH ± 20 %	19.5	4.5	36.4	4752-0033
25	CR75-2R2MC	2R2M	2.2μH ± 20 %	22.1	4.2	31.1	4752-0034
26	CR75-3R3MC	3R3M	3.3μH ± 20 %	24.7	3.7	26.8	4752-0035
27	CR75-3R9MC	3R9M	3.9μH ± 20 %	27.3	3.5	24.6	4752-0036
28	CR75-4R7MC	4R7M	4.7μH ± 20 %	30.0	3.1	20.4	4752-0037
29	CR75-5R6MC	5R6M	5.6μH ± 20 %	32.5	2.8	20.0	4752-0039
30	CR75-6R8MC	6R8M	6.8μH ± 20 %	36.4	2.7	19.6	4752-0040
31	CR75-8R2MC	8R2M	8.2μH ± 20 %	41.6	2.5	18.0	4752-0041

※1 : MEASURING CONDITIONS L 10 μH ～ 82 μH ; at 2.52 MHz
100 μH ～470 μH ; at 1 kHz
1.0 μH ～ 8.2 μH ; at 7.96 MHz △3

※2 : THIS INDICATES THE VALUE OF CURRENT WHEN THE INDUCTANCE IS 10% LOWER THAN ITS INITIAL VALUE AT D.C. SUPERPOSITION OR D.C. CURRENT WHEN AT △t = 40 ℃ WHICHEVER IS LOWER.(Ta = 20 ℃)

19th, Feb., 1998 | SUMIDA CODE | 4752

CHK.	CHK.	DRG.		DRG. NO. 5/8
SUNNY	FENG	DENG Y		S-074-6019

sumida

SPECIFICATION

TYPE
CR75

ELECTRICAL CHARACTERISTICS Ⅱ (IN THE CASE OF BOX)

NO	PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (Ω) [MAX.] (at20℃)	RATED CURRENT (A) ※2	S.R.F. (MHz) [TYP]	SUMIDA CODE
32	CR75－100KB	100K	10μH ± 10 %	0.07	2.3	28	4752-0042
33	CR75－120KB	120K	12μH ± 10 %	0.08	2.0	23	4752-0043
34	CR75－150KB	150K	15μH ± 10 %	0.09	1.8	22	4752-0044
35	CR75－180KB	180K	18μH ± 10 %	0.10	1.6	20	4752-0045
36	CR75－220KB	220K	22μH ± 10 %	0.11	1.5	17	4752-0046
37	CR75－270KB	270K	27μH ± 10 %	0.12	1.3	15	4752-0047
38	CR75－330KB	330K	33μH ± 10 %	0.13	1.2	15	4752-0048
39	CR75－390KB	390K	39μH ± 10 %	0.16	1.1	14	4752-0050
40	CR75－470KB	470K	47μH ± 10 %	0.18	1.1	13	4752-0052
41	CR75－560KB	560K	56μH ± 10 %	0.24	0.94	11	4752-0053
42	CR75－680KB	680K	68μH ± 10 %	0.28	0.85	11	4752-0054
43	CR75－820KB	820K	82μH ± 10 %	0.37	0.78	10	4752-0055
44	CR75－101KB	101K	100μH ± 10 %	0.43	0.72	9.2	4752-0056
45	CR75－121KB	121K	120μH ± 10 %	0.47	0.66	7.7	4752-0057
46	CR75－151KB	151K	150μH ± 10 %	0.64	0.58	6.1	4752-0058
47	CR75－181KB	181K	180μH ± 10 %	0.71	0.51	5.8	4752-0059
48	CR75－221KB	221K	220μH ± 10 %	0.96	0.49	5.2	4752-0060
49	CR75－271KB	271K	270μH ± 10 %	1.11	0.42	4.8	4752-0061
50	CR75－331KB	331K	330μH ± 10 %	1.26	0.40	4.3	4752-0063
51	CR75－391KB	391K	390μH ± 10 %	1.77	0.36	4.3	4752-0064
52	CR75－471KB	471K	470μH ± 10 %	1.96	0.34	3.8	4752-0065

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SUMIDA CODE	4752

CHK.	CHK.	DRG.		DRG. NO. 6/8
SUNNY	FENG	DENG Y		S-074-6019

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SPECIFICATION

TYPE
CR75

NO	PART NO. △3	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX.] (at20℃)	RATED CURRENT (A) ※2	S.R.F. (MHz) [TYP]	SUMIDA CODE
53	CR75-1RØMB	1R0M	1.0μH ± 20 %	15.6	6.0	53.7	4752-0066
54	CR75-1R5MB	1R5M	1.5μH ± 20 %	17.0	5.5	45.6	4752-0067
55	CR75-1R8MB	1R8M	1.8μH ± 20 %	19.5	4.5	36.4	4752-0068
56	CR75-2R2MB	2R2M	2.2μH ± 20 %	22.1	4.2	31.1	4752-0069
57	CR75-3R3MB	3R3M	3.3μH ± 20 %	24.7	3.7	26.8	4752-0070
58	CR75-3R9MB	3R9M	3.9μH ± 20 %	27.3	3.5	24.6	4752-0071
59	CR75-4R7MB	4R7M	4.7μH ± 20 %	30.0	3.1	20.4	4752-0072
60	CR75-5R6MB	5R6M	5.6μH ± 20 %	32.5	2.8	20.0	4752-0074
61	CR75-6R8MB	6R8M	6.8μH ± 20 %	36.4	2.7	19.6	4752-0075
62	CR75-8R2MB	8R2M	8.2μH ± 20 %	41.6	2.5	18.0	4752-0076

※1 : MEASURING CONDITIONS L 10 μH ～ 82 μH ; at 2.52 MHz
100 μH ～470 μH ; at 1 kHz
1.0 μH ～ 8.2 μH ; at 7.96 MHz △3

※2 : THIS INDICATES THE VALUE OF CURRENT WHEN THE INDUCTANCE IS 10% LOWER THAN ITS INITIAL VALUE AT D.C. SUPERPOSITION OR D.C. CURRENT WHEN AT △t = 40 ℃ WHICHEVER IS LOWER.(Ta = 20 ℃)

19th, Feb., 1998 | SUMIDA CODE | 4752

CHK.	CHK.	DRG.		DRG. NO. 7/8
SUNNY	FENG	DENG Y		S-074-6019

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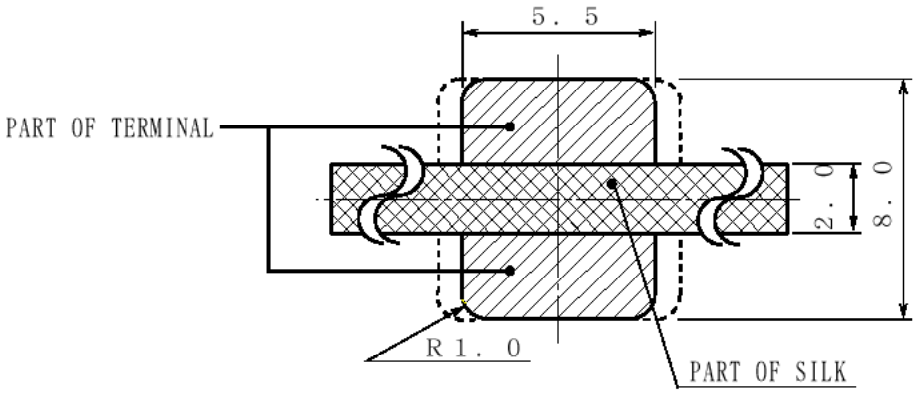
SPECIFICATION

TYPE
CR75

DIMENSION RECOMMENDED (mm)



PLEASE COAT WITH SILK BETWEEN TERMINAL.

THICKNESS OF METALMASK RECOMMENDED 0.15t.

19th, Feb., 1998

CHK.	CHK.	DRG.
SUNNY	FENG	DENG Y

DRG. NO. 8/8

S-074-6019

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