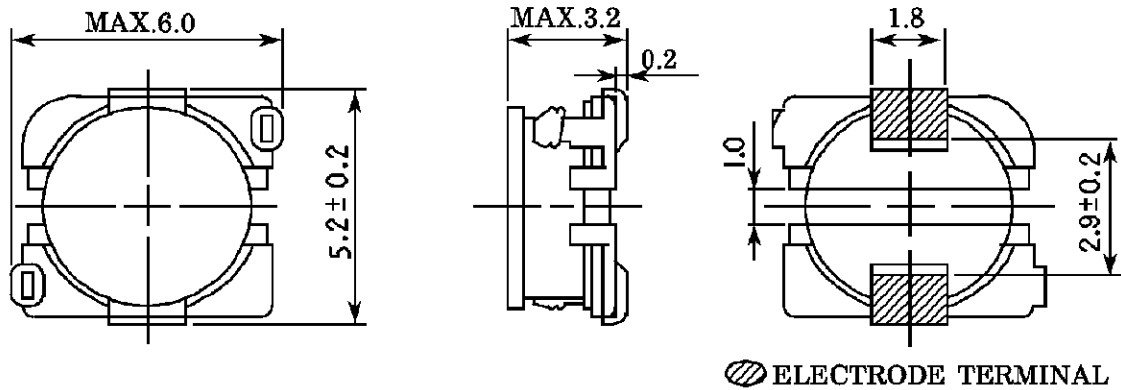


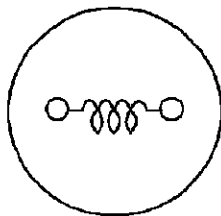
SPECIFICATION		
	SUMIDA TYPE CDH53	PART NO. REF. TO THE ATTACHED SHEET.

1. DIMENSION (UNIT mm)

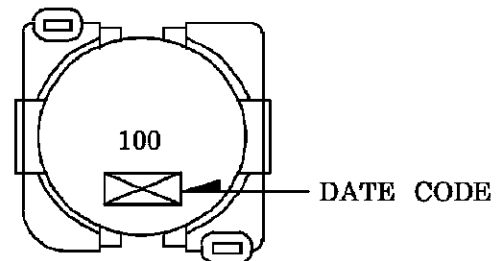


* DIMENSION WITHOUT TOLERANCE ARE APPROX.

2. CONNECTION



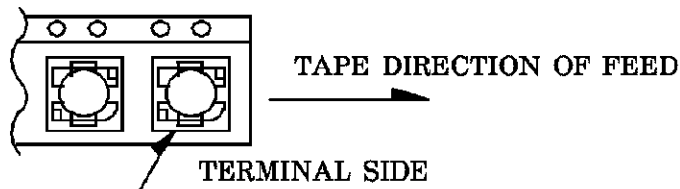
3. STAMP (Ex.)



**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-074-503)

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

24 th AUG . , 1994			SUMIDA CODE	4736
CHK.	CHK.	DRG.	DRG. NO. 2/6	
O.SATO	KOMA ITA	MONMA M		
			S-074-506	

GENERAL CHARACTERISTICS

TYPE	CDH53
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1. OPERATING TEMPERATURE : - 30 ~ + 100 °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 5.0N FOR 10±2 SECONDS. TERMINAL SHOULD NOT PEEL OFF. (REFER TO FIGURE AT RIGHT)

The diagram shows a 3D perspective of a rectangular component resting on a flat surface. Two arrows originate from the top surface of the component: one points to the right, labeled 'X', and the other points towards the viewer, labeled 'Y'. This illustrates the directions in which force should be applied to test the terminal strength.
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 ~ + 80 °C)
8. HUMIDITY TEST : INDUCTANCE DEVIATION WITHIN ± 5 %
 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 ± 3 % AFTER VIBRATION FOR 1 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 ± 3 % AFTER DROP DOWN WITH 981m/s² SHOCK ATTITUDE UPON A RUBBER BLOCK METHOD SHOCK TESTING MACHINE, FOR 1 TIME, IN EACH OF THREE ORIENTATIONS.

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C H K .	C H K .	D R G .
O.SATO	SUZUKI	MONMA M

DRG. NO.	3/6
S-074-506	



SPECIFICATION

TYPE	CDH53
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ELECTRICAL CHARACTERISTICS I (IN THE CASE OF REEL)

NO.	PART NO.	STAMP	INDUCTANCE [WITHIN] ※ 1	D.C.R.	RATED	SUMIDA CODE
				(Ω) [MAX.] (at 20°C) (TYPICAL VALUE)	CURRENT (A) ※ 2	
01	CDH53-2R2MC	2R2	2.2 μ H \pm 20 %	66 m (51 m)	2.03	-0025
02	CDH53-3R3MC	3R3	3.3 μ H \pm 20 %	88 m (68 m)	1.88	-0036
03	CDH53-4R7MC	4R7	4.7 μ H \pm 20 %	96 m (74 m)	1.68	-0047
04	CDH53-10 \emptyset LC	100	10 μ H \pm 15 %	0.16 (0.13)	1.23	-0058
05	CDH53-12 \emptyset LC	120	12 μ H \pm 15 %	0.18 (0.14)	1.12	-0069
06	CDH53-15 \emptyset KC	150	15 μ H \pm 10 %	0.25 (0.20)	1.00	-0071
07	CDH53-18 \emptyset KC	180	18 μ H \pm 10 %	0.28 (0.21)	0.88	-0082
08	CDH53-22 \emptyset KC	220	22 μ H \pm 10 %	0.39 (0.30)	0.80	-0093
09	CDH53-27 \emptyset KC	270	27 μ H \pm 10 %	0.42 (0.32)	0.72	-0104
10	CDH53-33 \emptyset KC	330	33 μ H \pm 10 %	0.49 (0.38)	0.67	-0115
11	CDH53-39 \emptyset KC	390	39 μ H \pm 10 %	0.55 (0.43)	0.64	-0126
12	CDH53-47 \emptyset KC	470	47 μ H \pm 10 %	0.77 (0.59)	0.53	-0137
13	CDH53-56 \emptyset KC	560	56 μ H \pm 10 %	0.87 (0.67)	0.50	-0148
14	CDH53-68 \emptyset JC	680	68 μ H \pm 5 %	1.21 (0.96)	0.45	-0159
15	CDH53-82 \emptyset JC	820	82 μ H \pm 5 %	1.34 (1.07)	0.39	-0160
16	CDH53-101JC	101	100 μ H \pm 5 %	1.57 (1.25)	0.37	-0171
17	CDH53-121JC	121	120 μ H \pm 5 %	1.80 (1.44)	0.34	-0182
18	CDH53-151JC	151	150 μ H \pm 5 %	2.40 (1.92)	0.31	-0193
19	CDH53-181JC	181	180 μ H \pm 5 %	2.66 (2.13)	0.30	-0204
20	CDH53-221JC	221	220 μ H \pm 5 %	3.73 (2.99)	0.26	-0215

※ 1: MEASURED FREQUENCY L 2.2 μ H ~ 4.7 μ H at 7.96 MHz
 10 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)

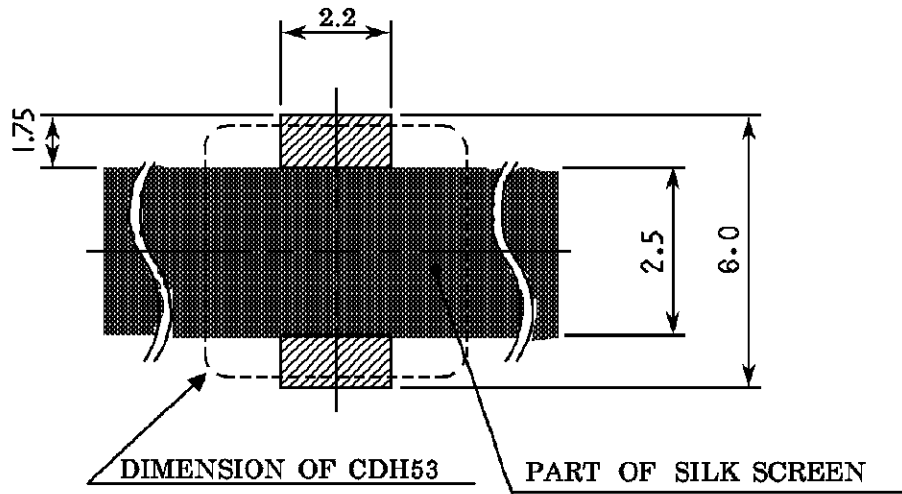
24 th AUG . , 1994			SUMIDA CODE	4736	DEG NO.	4/6
CH K.	CH K.	DR G.	S-074-506			
O.SATO	SUZUKI	MONMA M				



SPECIFICATION

TYPE	CDH53
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DIMENSION RECOMMENDED (mm)



PLEASE COAT WITH SILK BETWEEN TERMINAL.

24 th AUG . , 1994

C H K.	C H K.	D R G.
O.SATO	SUZUKI	MONMA M

DRG. NO.	6/6
S-074-506	

