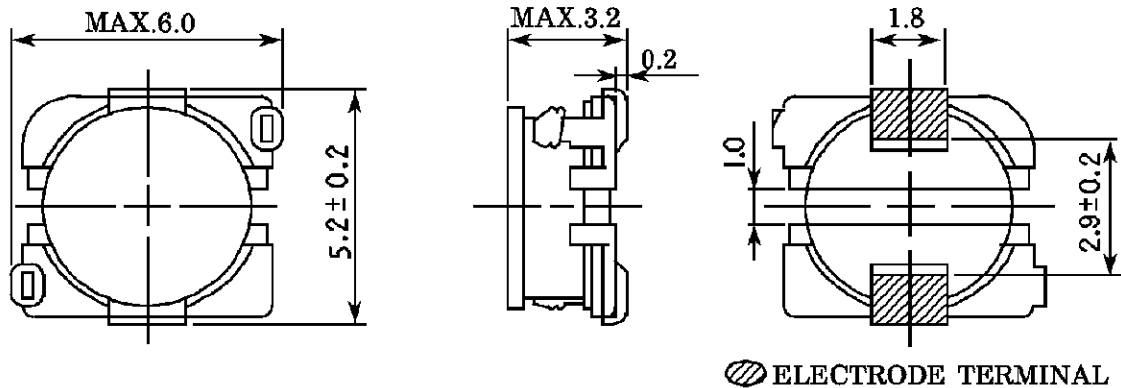


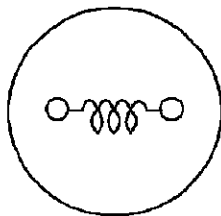
<b>SPECIFICATION</b>		
	SUMIDA TYPE <b>CDH53</b>	PART NO.    REF. TO THE ATTACHED SHEET.

1. DIMENSION (UNIT mm)

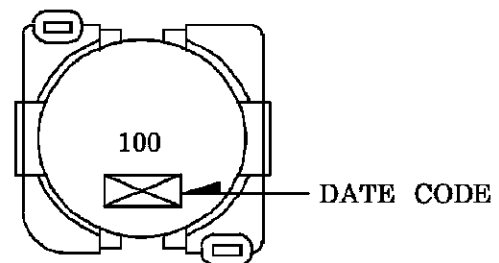


\* DIMENSION WITHOUT TOLERANCE ARE APPROX.

2. CONNECTION



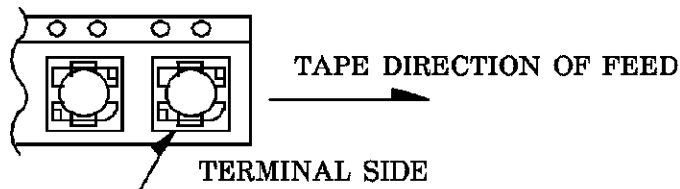
3. STAMP (Ex.)



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)

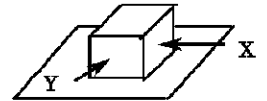
\*RECOMMENDED REFLOW CONDITION TO BE ACCORDING TO S-074-5003.

24 th AUG . , 1994			SUMIDA CODE	4736
CH K.	CH K.	DR G.	DRG. NO.    2/6	
O.SATO	KOMA ITA	MONMA M		
			<b>S-074-506</b>	

# 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)
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<sup>-6</sup>/°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/s<sup>2</sup> SHOCK ATTITUDE UPON A RUBBER BLOCK METHOD SHOCK TESTING MACHINE, FOR 1 TIME, IN EACH OF THREE ORIENTATIONS.



24 th AUG . , 1994

CHK.	CHK.	DRG.
O.SATO	SUZUKI	MONMA M

DRG. NO.	3/6
<b>S-074-506</b>	

# 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. ( $\Omega$ ) [MAX.] (at 20 °C) (TYPICAL VALUE)	RATED CURRENT (A) ※ 2	SUMIDA CODE
01	CDH53-2R2MC	2R2	2.2 $\mu$ H $\pm$ 20 %	66 m (51 m)	2.03	-0025
02	CDH53-3R3MC	3R3	3.3 $\mu$ H $\pm$ 20 %	88 m (68 m)	1.88	-0036
03	CDH53-4R7MC	4R7	4.7 $\mu$ H $\pm$ 20 %	96 m (74 m)	1.68	-0047
04	CDH53-10 $\emptyset$ LC	100	10 $\mu$ H $\pm$ 15 %	0.16 (0.13)	1.23	-0058
05	CDH53-12 $\emptyset$ LC	120	12 $\mu$ H $\pm$ 15 %	0.18 (0.14)	1.12	-0069
06	CDH53-15 $\emptyset$ KC	150	15 $\mu$ H $\pm$ 10 %	0.25 (0.20)	1.00	-0071
07	CDH53-18 $\emptyset$ KC	180	18 $\mu$ H $\pm$ 10 %	0.28 (0.21)	0.88	-0082
08	CDH53-22 $\emptyset$ KC	220	22 $\mu$ H $\pm$ 10 %	0.39 (0.30)	0.80	-0093
09	CDH53-27 $\emptyset$ KC	270	27 $\mu$ H $\pm$ 10 %	0.42 (0.32)	0.72	-0104
10	CDH53-33 $\emptyset$ KC	330	33 $\mu$ H $\pm$ 10 %	0.49 (0.38)	0.67	-0115
11	CDH53-39 $\emptyset$ KC	390	39 $\mu$ H $\pm$ 10 %	0.55 (0.43)	0.64	-0126
12	CDH53-47 $\emptyset$ KC	470	47 $\mu$ H $\pm$ 10 %	0.77 (0.59)	0.53	-0137
13	CDH53-56 $\emptyset$ KC	560	56 $\mu$ H $\pm$ 10 %	0.87 (0.67)	0.50	-0148
14	CDH53-68 $\emptyset$ JC	680	68 $\mu$ H $\pm$ 5 %	1.21 (0.96)	0.45	-0159
15	CDH53-82 $\emptyset$ JC	820	82 $\mu$ H $\pm$ 5 %	1.34 (1.07)	0.39	-0160
16	CDH53-101JC	101	100 $\mu$ H $\pm$ 5 %	1.57 (1.25)	0.37	-0171
17	CDH53-121JC	121	120 $\mu$ H $\pm$ 5 %	1.80 (1.44)	0.34	-0182
18	CDH53-151JC	151	150 $\mu$ H $\pm$ 5 %	2.40 (1.92)	0.31	-0193
19	CDH53-181JC	181	180 $\mu$ H $\pm$ 5 %	2.66 (2.13)	0.30	-0204
20	CDH53-221JC	221	220 $\mu$ H $\pm$ 5 %	3.73 (2.99)	0.26	-0215

※ 1: MEASURED FREQUENCY L      2.2  $\mu$ H ~ 4.7  $\mu$ H      at 7.96 MHz  
    10  $\mu$ H ~ 220  $\mu$ 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)

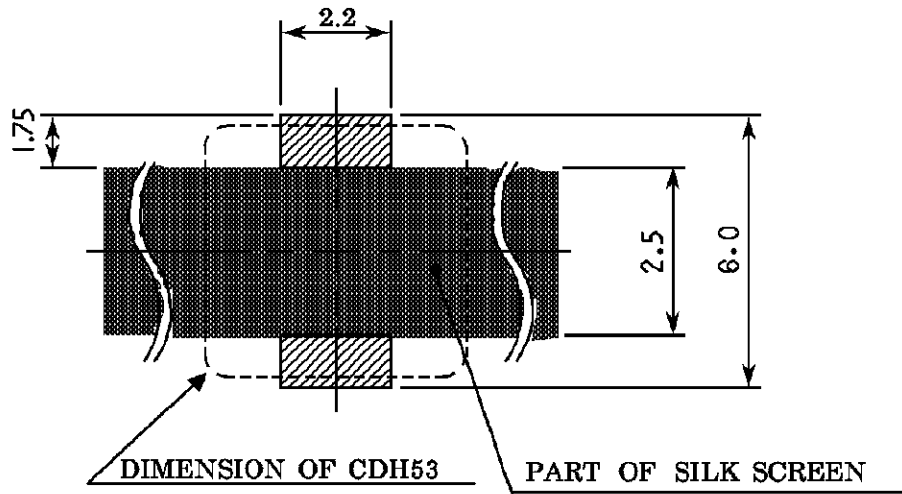
24 th AUG . , 1994			SUMIDA CODE	4736	DEG NO.	4/6
C H K.	C H K.	D R G.	S-074-506			
O.SATO	SUZUKI	MONMA M				



# SPECIFICATION

TYPE	CDH53
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DIMENSION RECOMMENDED (mm)



PLEASE COAT WITH SILK BETWEEN TERMINAL.

24 th AUG . , 1994

CHK.	CHK.	DRG.
O.SATO	SUZUKI	MONMA M

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