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.

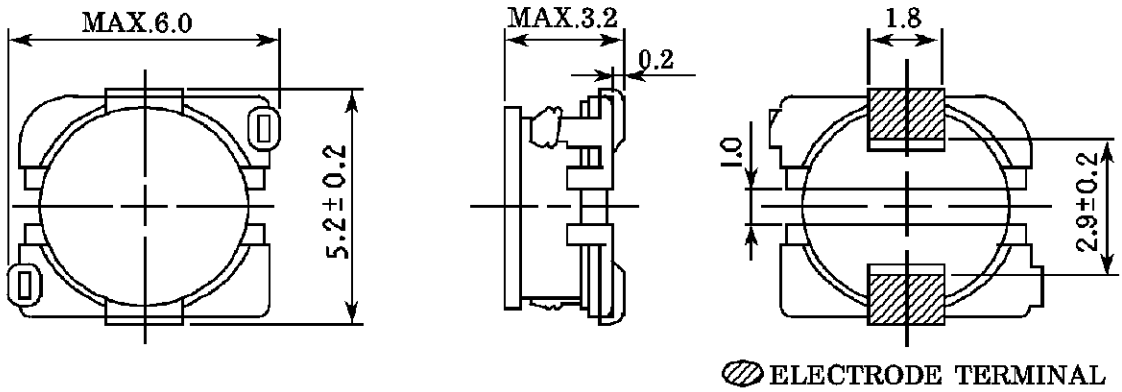
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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

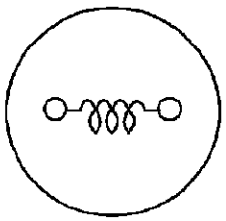
	SPECIFICATION	
	SUMIDA TYPE CDH53	PART NO. REF. TO THE ATTACHED SHEET.

1. DIMENSION (UNIT mm)

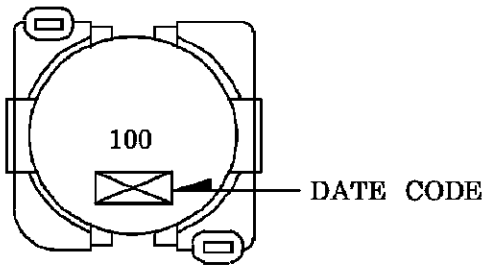


* DIMENSION WITHOUT TOLERANCE ARE APPOX.

2. CONNECTION



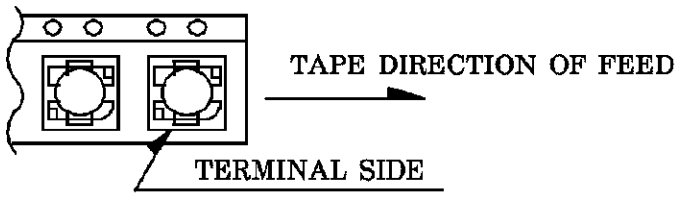
3. STAMP (Ex.)



DIRECTLY STAMP
UNFIXED THE POSITION

4. NOTE

* ENCLOSING CONDITION OF COILS.



△2 * 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

C H K.	C H K.	D R G.		DRG. NO. 2/6
O.SATO	KOMA ITA	MONMA M		S−074−506

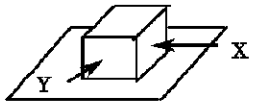
GENERAL CHARACTERISTICS

TYPE
CDH53

1. OPERATIONG TEMPERATURE : − 30 ~ + 100 ℃ (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 5.0NFOR 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 ~ + 80 ℃)

8. HUMIDITY TEST : INDUCTANCE DEVIATION WITHIN ± 5 %

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

24 th AUG., 1994

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

DRG. NO. 3/6

S−074−506

SPECIFICATION

TYPE
CDH53

ELECTRICAL CHARACTERISTICS I (IN THE CASE OF REEL)

NO.	PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (Ω) [MAX.] (at 20℃) (TYPICAL VALUE)	RATED CURRENT (A) ※2	SUMIDA CODE
01	CDH53－2R2MC	2R2	2.2 μH ± 20 %	66 m (51 m)	2.03	－0025
02	CDH53－3R3MC	3R3	3.3 μH ± 20 %	88 m (68 m)	1.88	－0036
03	CDH53－4R7MC	4R7	4.7 μH ± 20 %	96 m (74 m)	1.68	－0047
04	CDH53－1Ø ØLC	100	10 μH ± 15 %	0.16 (0.13)	1.23	－0058
05	CDH53－12ØLC	120	12 μH ± 15 %	0.18 (0.14)	1.12	－0069
06	CDH53－15ØKC	150	15 μH ± 10 %	0.25 (0.20)	1.00	－0071
07	CDH53－18ØKC	180	18 μH ± 10 %	0.28 (0.21)	0.88	－0082
08	CDH53－22ØKC	220	22 μH ± 10 %	0.39 (0.30)	0.80	－0093
09	CDH53－27ØKC	270	27 μH ± 10 %	0.42 (0.32)	0.72	－0104
10	CDH53－33ØKC	330	33 μH ± 10 %	0.49 (0.38)	0.67	－0115
11	CDH53－39ØKC	390	39 μH ± 10 %	0.55 (0.43)	0.64	－0126
12	CDH53－47ØKC	470	47 μH ± 10 %	0.77 (0.59)	0.53	－0137
13	CDH53－56ØKC	560	56 μH ± 10 %	0.87 (0.67)	0.50	－0148
14	CDH53－68ØJC	680	68 μH ± 5 %	1.21 (0.96)	0.45	－0159
15	CDH53－82ØJC	820	82 μH ± 5 %	1.34 (1.07)	0.39	－0160
16	CDH53－1Ø1JC	101	100 μH ± 5 %	1.57 (1.25)	0.37	－0171
17	CDH53－121JC	121	120 μH ± 5 %	1.80 (1.44)	0.34	－0182
18	CDH53－151JC	151	150 μH ± 5 %	2.40 (1.92)	0.31	－0193
19	CDH53－181JC	181	180 μH ± 5 %	2.66 (2.13)	0.30	－0204
20	CDH53－221JC	221	220 μH ± 5 %	3.73 (2.99)	0.26	－0215

※1: MEASURED FREQUENCY L 2.2 μH ~ 4.7 μH at 7.96 MHz
10 μH ~ 220 μH at 1 kHz

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

24 th AUG., 1994

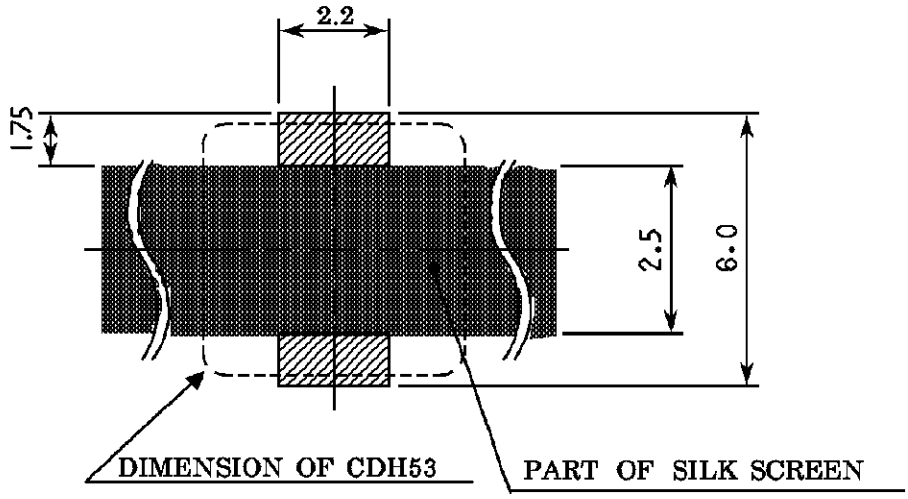
SUMIDA CODE	4736

C H K.	C H K.	D R G.		DEG NO. 4/6
O.SATO	SUZUKI	MONMA M		S－074－506

SPECIFICATION

TYPE
CDH53

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	

sumida