



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!



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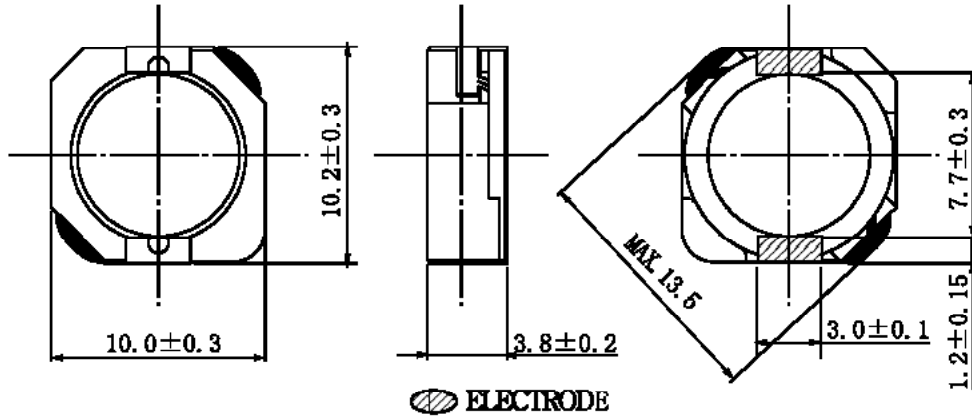
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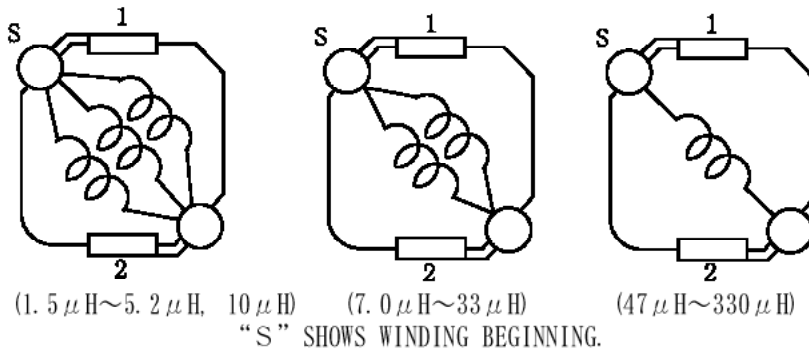
	SPECIFICATION	CUSTOMER:
	SUMIDA TYPE CDRH104R	PART NO. REF. TO THE ATTACHED SHEET

1. DIMENSION (UNIT mm)

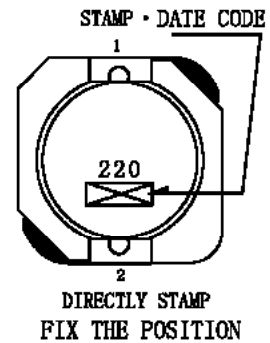


* DIMENSION WITHOUT TOLERANCE ARE APPROX.

2. CONNECTION (BOTTOM)

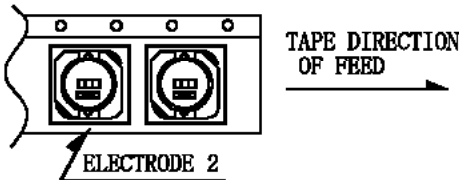


3. STAMP (EXP.)



4. NOTE

- * RECOMMENDED REFLOW CONDITIONS ARE BASED ON S-074-5003.
- * ENCLOSING CONDITION OF COILS. Δ



* CARRIER TAPE PACKING SPECIFICATION IN DETAIL. (S-074-5092)

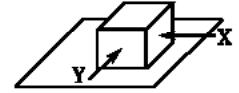
4th, Sep., 1999			SUMIDA CODE	4768
CHK.	CHK.	DRG.	DRG. NO. 2/5 S-074-6082	
CHEN WEIMING	HE GUOGAO	TIAN YONGXIANG YC		

GENERAL CHARACTERISTICS

TYPE

CDRH104R

1. OPERATING TEMPERATURE RANGE: \triangle $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$ (CONTAIN GENERATE HEAT OF COIL)
2. STORAGE TEMPERATURE RANGE : $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$
3. EXTERNAL APPEARANCE : NO EXTERNAL DEFECTS CAN BE FOUND IN THE VISUAL INSPECTION.
4. TLECTRODE STRENGTH : NO TLECTRODE DETACHMENT SHOULD BE FOUND WHEN THE DEVICE IS PUSHED IN TWO DIRECTIONS OF X AND Y WITH THE FORCE OF 5.0N FOR 10 ± 5 SECONDS AFTER SOLDERING BETWEEN COPPER PLATE AND THE TLECTRODES.
(REFER TO FIGURE AT RIGHT)
5. HEAT ENDURANCE TEST : REFER TO S-074-5002.
6. TEMPERATURE FEATURE : INDUCTANCE COEFFICIENT IS $(0 \sim 2000) \times 10^{-6}/^{\circ}\text{C}$ ($-40 \sim +100^{\circ}\text{C}$)
7. HUMIDITY TEST : INDUCTANCE DEVIATION IS WITHIN $\pm 5.0\%$ AND NO STRUCTURE AND ELECTRIC DEFECTS CAN BE FOUND AFTER 96 HOURS TEST UNDER THE CONDITION OF RELATIVE HUMIDITY OF $90 \sim 95\%$ AND TEMPERATURE OF $40 \pm 2^{\circ}\text{C}$, AND 1 HOUR STORAGE UNDER ROOM AMBIENT CONDITIONS AFTER THE DEVICE IS WIPED WITH DRY CLOTH.
8. VIBRATION TEST : INDUCTANCE DEVIATION IS WITHIN $\pm 2.0\%$ AFTER 1 HOUR SWEEPING VIBRATION IN EACH THREE DIRECTIONS, NAMELY, FORWARD AND BACKWARD, UP AND DOWN, RIGHT AND LEFT. THE FREQUENCY IS $10 \sim 55 \sim 10\text{Hz}$ AND THE AMPLITUDE OF 1 MINUTE CYCLE IS 1.5mm PP.
9. SHOCK TEST : INDUCTANCE DEVIATION IS WITHIN $\pm 2.0\%$ AFTER THE TEST WITH GOM-BLOCK SHOCK TESTING MACHINE, ONCE IN EACH OF THE THREE PERPENDICULAR AXIS DIRECTIONS. THE SHOCK ACCELERATION IS 981m/s^2 .
10. SOLDER ABILITY : ELECTRODES ARE IMMERSSED IN ROSIN (JIS-K-5902) WITH METHANOL (JIS-K-1501) (25%) FOR 5 SECONDS. THEN DIPPED IN $230 \pm 5^{\circ}\text{C}$ MOLTEN SOLDER (JIS-Z- 3282 H63A) FOR 2 ± 0.5 SECONDS. 95% OF THE AREAS OF THE IMMERSSED ELECTRODES SHOULD BE COVERD BY SOLDER COATING.
11. HIGH TEMPERATURE LOAD LIFE TEST : INDUCTANCE DEVIATION IS WITHIN $\pm 3.0\%$ AND NO STRUCTURE AND ELECTRIC DEFECTS CAN BE FOUND AFTER 500 ± 12 HOURS TEST UNDER THE CONDITION OF TEMPERATURE OF $100 \pm 2^{\circ}\text{C}$ AND RATED CURRENT LOADED AND 1 HOUR STORAGE UNDER ROOM AMBIENT CONDITIONS AFTER WHICH DEVICE IS TESTED WITHIN THE NEXT 2 HOURS.
12. LOW TEMPERATURE LOAD LIFE TEST : INDUCTANCE DEVIATION IS WITHIN $\pm 3.0\%$ AND NO STRUCTURE AND ELECTRIC DEFECTS CAN BE FOUND AFTER 500 ± 12 HOURS TEST UNDER THE CONDITION OF TEMPERATURE OF $-40 \pm 3^{\circ}\text{C}$ AND RATED CURRENT LOADED AND 1 HOUR STORAGE UNDER ROOM AMBIENT CONDITIONS AFTER WHICH DEVICE IS TESTED WITHIN THE NEXT 2 HOURS.



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DRG. NO.

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S-074-6082

SPECIFICATION

TYPE

CDRH104R

ELECTRICAL CHARACTERISTICS

NO.	PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D. C. R. (Ω) [MAX.] (TYP.) (at 20°C) ※2	RATED CURRENT (A) ※5		SUMIDA CODE
					※3	※4	
1	CDRH104R-1R5NC	1R5	1.5 μH ± 30%	8.1m (6.0m)	10.0	6.50	-0031
2	CDRH104R-2R5NC	2R5	2.5 μH ± 30%	10.5m (7.8m)	7.50	6.10	-0018
3	CDRH104R-3R8NC	3R8	3.8 μH ± 30%	13.0m (9.6m)	6.00	5.50	-0019
4	CDRH104R-5R2NC	5R2	5.2 μH ± 30%	22m (16m)	5.50	5.40	-0020
5	CDRH104R-7R0NC	7R0	7.0 μH ± 30%	27m (20m)	4.80	4.50	-0021
6	CDRH104R-100NC	100	10 μH ± 30%	35m (26m)	4.40	3.80	-0022
7	CDRH104R-150NC	150	15 μH ± 30%	50m (37m)	3.60	3.10	-0023
8	CDRH104R-220NC	220	22 μH ± 30%	73m (54m)	2.90	2.50	-0024
9	CDRH104R-330NC	330	33 μH ± 30%	93m (69m)	2.30	2.20	-0025
10	CDRH104R-470NC	470	47 μH ± 30%	128m (95m)	2.10	1.90	-0026
11	CDRH104R-680NC	680	68 μH ± 30%	213m (158m)	1.50	1.42	-0027
12	CDRH104R-101NC	101	100 μH ± 30%	304m (225m)	1.35	1.25	-0028
13	CDRH104R-151NC	151	150 μH ± 30%	506m (375m)	1.15	0.85	-0017
14	CDRH104R-221NC	221	220 μH ± 30%	756m (560m)	0.92	0.70	-0029
15	CDRH104R-331NC	331	330 μH ± 30%	1.09 (810m)	0.70	0.52	-0030

※1 MEASURING FREQUENCY at 100kHz 1V

※2 () TYPICAL VALUE.

※3 THE CURRENT WHEN THE INDUCTANCE DECREASES TO 65% OF INITIAL VALUE.

※4 THE CURRENT WHEN THE TEMPERATURE OF COIL IS INCREASED BY 30°C.

※5 THE RATED CURRENT INDICATES THE CURRENT WHEN THE INDUCTANCE DECREASES TO 65% OF INITIAL VALUE OR DC CURRENT WHEN THE TEMPERATURE OF COIL IS INCREASED BY 30°C. THE SMALLER ONE IS DEFINED AS RATED CURRENT.

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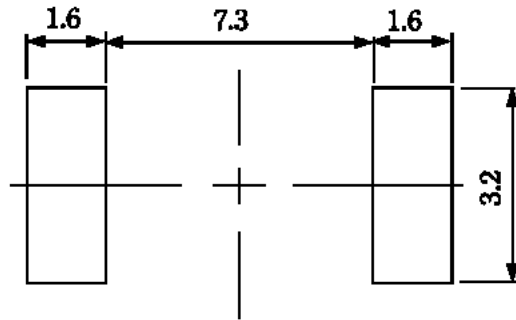
S-074-6082

SPECIFICATION

TYPE

CDRH104R

DIMENSION RECOMMENDED (mm)



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