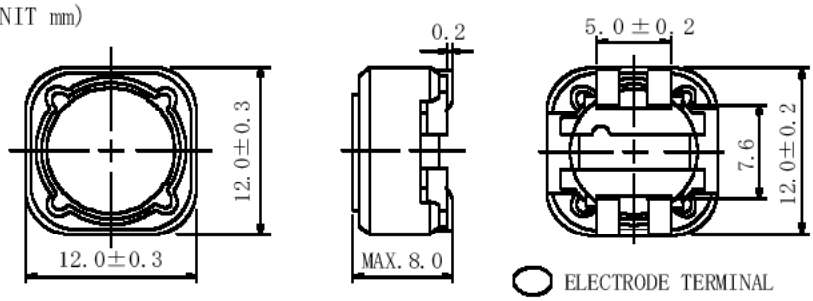
S P E C I F I C A T I O N

TYPE
C D R H 1 2 7 / L D

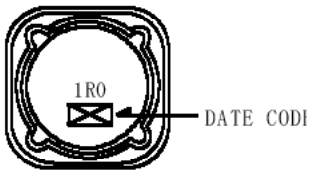
1 . SCOPE
REF. TO S-074-1510.

2 . CONSTRUCTION
2-1. DIMENSION (UNIT mm)



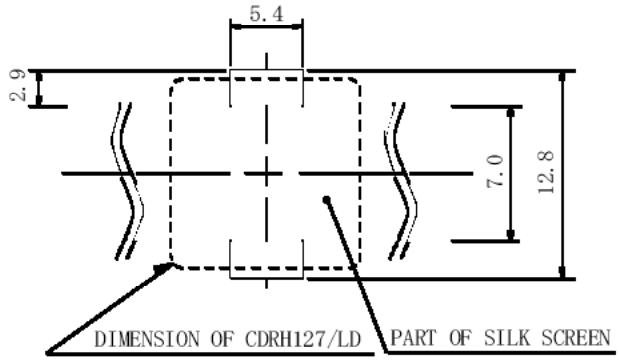
＊ DIMENSIONS WITHOUT TOLERANCE ARE APPROX.

2-2. STAMP (Ex.)



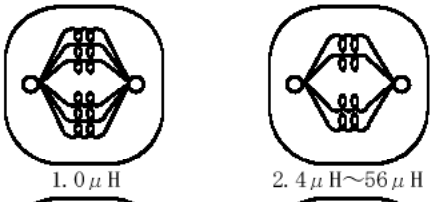
DIRECTLY STAMP
UNFIXED THE POSITION

2-3. DIMENSION RECOMMENDED (mm)



PLEASE COAT WITH SILK SCREEN AMONG THE FOUR ELECTRODES.

3 . COIL SPECIFICATION
3-1. CONNECTION (BOTTOM)



1.0μH　　2.4μH～56μH

68μH～150μH　　180μH～1 mH

9 t h , M a y , 2 0 0 2			PART NAME	REF. TO THE ATTACHED SHEET.	
CHK.	CHK.	DRG.	SUMIDA CODE	4 7 8 5	
CHEN WEIMING	HE SHIYING	WANG WEILING F	SAMPLE NO.	4 7 8 5 － T 0 0 5	SPEC. NO. S－0 7 4－6 1 4 5 2/5
			FIRST ISSUE		

sumida

S P E C I F I C A T I O N

TYPE
C D R H 1 2 7 / L D

3-2. ELECTRICAL CHARACTERISTICS Ⅰ (IN THE CASE OF REEL)

NO.	PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (Ω) [MAX.] (at 20℃) ※2	RATED CURRENT (A) ※3	SUMIDA CODE
01	CDRH127/LD-1RØNC	1R0	1.0μH ± 30%	6.5m(5.0m)	14.0	4785-0005
02	CDRH127/LD-2R4NC	2R4	2.4μH ± 30%	10.5m(8.1m)	10.3	4785-0006
03	CDRH127/LD-3R5NC	3R5	3.5μH ± 30%	12.4m(9.5m)	9.30	4785-0007
04	CDRH127/LD-4R6NC	4R6	4.6μH ± 30%	13.8m(10.6m)	9.10	4785-0008
05	CDRH127/LD-5R8NC	5R8	5.8μH ± 30%	16.2m(12.4m)	8.60	4785-0009
06	CDRH127/LD-7R4NC	7R4	7.4μH ± 30%	17.7m(13.6m)	7.40	4785-0010
07	CDRH127/LD-1ØØMC	100	10 μH ± 20%	19.5m(15.0m)	6.70	4785-0011
08	CDRH127/LD-12ØMC	120	12 μH ± 20%	21.3m(16.4m)	6.45	4785-0012
09	CDRH127/LD-15ØMC	150	15 μH ± 20%	26.4m(20.3m)	5.65	4785-0013
10	CDRH127/LD-18ØMC	180	18 μH ± 20%	28.0m(21.5m)	5.10	4785-0014
11	CDRH127/LD-22ØMC	220	22 μH ± 20%	36.4m(28.0m)	4.70	4785-0015
12	CDRH127/LD-27ØMC	270	27 μH ± 20%	41.6m(32.0m)	4.20	4785-0116
13	CDRH127/LD-33ØMC	330	33 μH ± 20%	53.3m(41.0m)	3.90	4785-0017
14	CDRH127/LD-39ØMC	390	39 μH ± 20%	60.5m(46.5m)	3.50	4785-0018
15	CDRH127/LD-47ØMC	470	47 μH ± 20%	78.0m(60.0m)	3.25	4785-0019
16	CDRH127/LD-56ØMC	560	56 μH ± 20%	90.0m(69.0m)	2.90	4785-0020
17	CDRH127/LD-68ØMC	680	68 μH ± 20%	120m(92.0m)	2.60	4785-0021
18	CDRH127/LD-82ØMC	820	82 μH ± 20%	119m(91.0m)	2.40	4785-0022
19	CDRH127/LD-1Ø1MC	101	100μH ± 20%	151m (119m)	2.10	4785-0023
20	CDRH127/LD-121MC	121	120μH ± 20%	169m (130m)	1.90	4785-0024
21	CDRH127/LD-151MC	151	150μH ± 20%	227m (174m)	1.80	4785-0025
22	CDRH127/LD-181MC	181	180μH ± 20%	299m (230m)	1.55	4785-0026
23	CDRH127/LD-221MC	221	220μH ± 20%	338m (260m)	1.45	4785-0027
24	CDRH127/LD-271MC	271	270μH ± 20%	419m (322m)	1.30	4785-0028
25	CDRH127/LD-331MC	331	330μH ± 20%	471m (362m)	1.20	4785-0029
26	CDRH127/LD-391MC	391	390μH ± 20%	572m (440m)	1.10	4785-0030
27	CDRH127/LD-471MC	471	470μH ± 20%	741m (570m)	1.00	4785-0031
28	CDRH127/LD-561MC	561	560μH ± 20%	852m (655m)	0.95	4785-0032
29	CDRH127/LD-681MC	681	680μH ± 20%	1.13 (870m)	0.85	4785-0033
30	CDRH127/LD-821MC	821	820μH ± 20%	1.24 (950m)	0.75	4785-0034
31	CDRH127/LD-1Ø2MC	102	1.0 mH ± 20%	1.50 (1.15)	0.70	4785-0035

NOTE :

SPEC.NO.
S－０７４－６１４５

sumida

SPECIFICATION

TYPE
CDRH127/LD

3-3. ELECTRICAL CHARACTERISTICS Ⅱ (IN THE CASE OF BOX)

NO.	PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (Ω) [MAX.] (at 20℃) ※2	RATED CURRENT (A) ※3	SUMIDA CODE
32	CDRH127/LD-1RØNB	1R0	1.0μH ± 30%	6.5m(5.0m)	14.0	4785-0036
33	CDRH127/LD-2R4NB	2R4	2.4μH ± 30%	10.5m(8.1m)	10.3	4785-0037
34	CDRH127/LD-3R5NB	3R5	3.5μH ± 30%	12.4m(9.5m)	9.30	4785-0038
35	CDRH127/LD-4R6NB	4R6	4.6μH ± 30%	13.8m(10.6m)	9.10	4785-0039
36	CDRH127/LD-5R8NB	5R8	5.8μH ± 30%	16.2m(12.4m)	8.60	4785-0040
37	CDRH127/LD-7R4NB	7R4	7.4μH ± 30%	17.7m(13.6m)	7.40	4785-0041
38	CDRH127/LD-100MB	100	10 μH ± 20%	19.5m(15.0m)	6.70	4785-0042
39	CDRH127/LD-120MB	120	12 μH ± 20%	21.3m(16.4m)	6.45	4785-0043
40	CDRH127/LD-150MB	150	15 μH ± 20%	26.4m(20.3m)	5.65	4785-0044
41	CDRH127/LD-180MB	180	18 μH ± 20%	28.0m(21.5m)	5.10	4785-0045
42	CDRH127/LD-220MB	220	22 μH ± 20%	36.4m(28.0m)	4.70	4785-0046
43	CDRH127/LD-270MB	270	27 μH ± 20%	41.6m(32.0m)	4.20	4785-0047
44	CDRH127/LD-330MB	330	33 μH ± 20%	53.3m(41.0m)	3.90	4785-0048
45	CDRH127/LD-390MB	390	39 μH ± 20%	60.5m(46.5m)	3.50	4785-0049
46	CDRH127/LD-470MB	470	47 μH ± 20%	78.0m(60.0m)	3.25	4785-0050
47	CDRH127/LD-560MB	560	56 μH ± 20%	90.0m(69.0m)	2.90	4785-0051
48	CDRH127/LD-680MB	680	68 μH ± 20%	120m(92.0m)	2.60	4785-0052
49	CDRH127/LD-820MB	820	82 μH ± 20%	119m(91.0m)	2.40	4785-0053
50	CDRH127/LD-101MB	101	100μH ± 20%	151m (119m)	2.10	4785-0054
51	CDRH127/LD-121MB	121	120μH ± 20%	169m (130m)	1.90	4785-0055
52	CDRH127/LD-151MB	151	150μH ± 20%	227m (174m)	1.80	4785-0056
53	CDRH127/LD-181MB	181	180μH ± 20%	299m (230m)	1.55	4785-0057
54	CDRH127/LD-221MB	221	220μH ± 20%	338m (260m)	1.45	4785-0058
55	CDRH127/LD-271MB	271	270μH ± 20%	419m (322m)	1.30	4785-0059
56	CDRH127/LD-331MB	331	330μH ± 20%	471m (362m)	1.20	4785-0060
57	CDRH127/LD-391MB	391	390μH ± 20%	572m (440m)	1.10	4785-0061
58	CDRH127/LD-471MB	471	470μH ± 20%	741m (570m)	1.00	4785-0062
59	CDRH127/LD-561MB	561	560μH ± 20%	852m (655m)	0.95	4785-0063
60	CDRH127/LD-681MB	681	680μH ± 20%	1.13 (870m)	0.85	4785-0064
61	CDRH127/LD-821MB	821	820μH ± 20%	1.24 (950m)	0.75	4785-0065
62	CDRH127/LD-102MB	102	1.0 mH ± 20%	1.50 (1.15)	0.70	4785-0066

※1 MEASURING FREQUENCY 1.0μH ～ 7.4μH ; at 100 kHz
10 μH ～ 1 mH ; at 1 kHz

※2 ( )TYPICAL VALUE.

※3 THIS INDICATES THE VALUE OF CURRENT WHEN THE INDUCTANCE IS -25% MORE THAN IT'S NOMINAL VALUE AND TEMPERATURE RISING ΔT=40℃ LOWER AT D.C.SUPERPOSITION. (Ta=20℃)

NOTE :

SPEC.NO.
S－074－6145

S P E C I F I C A T I O N

TYPE
C D R H 1 2 7 / L D

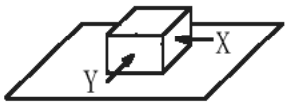
4 . GENERAL CHARACTERISTICS

4-1. STORAGE TEMPERATURE RANGE : -40℃ ～ +100℃

4-2. OPERATING TEMPERATURE RANGE: -40℃ ～ +100℃ (INCLUDING SELF TEMPERATURE RISE)

4-3. EXTERNAL APPEARANCE : NO EXTERNAL DEFECTS CAN BE FOUND IN THE VISUAL INSPECTION.

4-4. ELECTRODE STRENGTH : NO TERMINAL DETACHMENT SHOULD BE FOUND WHEN THE DEVICE IS PUSHED IN TWO DIRECTIONS OF X AND Y WITH THE FORCE OF 5.0N FOR 10±2 SECONDS AFTER SOLDERING BETWEEN COPPER PLATE AND THE ELECTRODES. (REFER TO FIGURE AT RIGHT)



4-5. HEAT ENDURANCE TEST : REFER TO S-074-5002.

4-6. INSULATION RESISTANCE: VOLTAGE PROOF : THE INSULATION RESISTANCE SHOULD BE OVER 100MΩ WHEN D.C. 100V IS APPLIED TO THE WINDING-CORE, MEANWHILE NO STRUCTURE AND ELECTRIC DEFECTS SHOULD BE FOUND FOR 1 MINUTE.

4-7. TEMPERATURE FEATURE : INDUCTANCE COEFFICIENT IS (0～2000)×10^{-6}/℃ (-25℃～+80℃)

4-8. HUMIDITY TEST : INDUCTANCE DEVIATION IS WITHIN ±5.0% AND NO STRUCTURE AND ELECTRIC DEFECTS CAN BE FOUND AFTER 96±4 HOURS TEST UNDER THE CONDITION OF RELATIVE HUMIDITY OF 90～95% AND TEMPERATURE OF 40±2℃, AND 1 HOUR STORAGE UNDER ROOM AMBIENT CONDITIONS AFTER THE DEVICE IS WIPED WITH DRY CLOTH.

4-9. VIBRATION TEST : INDUCTANCE DEVIATION IS WITHIN ±3.0% AFTER 1 HOUR SWEEPING VIBRATION IN EACH THREE DIRECTIONS, NAMELY, FORWARD AND BACKWARD, UP AND DOWN, RIGHT AND LEFT. THE FREQUENCY IS 10～55～10Hz AND THE AMPLITUDE OF 1 MINUTE CYCLE IS 1.5mm PP.

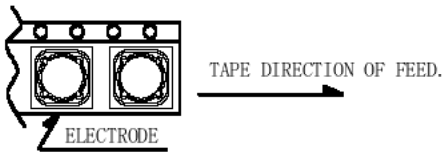
4-10. SHOCK TET : INDUCTANCE DEVIATION IS WITHIN ±3.0% AFTER THE TEST WITH GUM-BLOCK SHOCK TESTING MACHINE, ONCE IN EACH OF THE THREE PERPENDICULAR AXIS DIRECTIONS. THE SHOCK ACCELERATION IS 981m/s^2.

5 . NOTE

* PLEASE DO NOT USE A WASHING AGENT.
* RECOMMENDATION:DUE TO THE COIL HEAVY WEIGHT. PLEASE APPLY BOND BETWEEN THIS COIL PART AND P.C.B. WHEN FIXED ONTO THE PCB.
* RECOMMENDED REFLOW CONDITION TO BE ACCORDING TO S-074-5003.

6 . PACKING

6-1. ENCLOSING CONDITION OF COILS.



6-2. IN THE CASE OF REEL: CARRIER TAPE PACKING SPECIFICATION IN DETAIL. (S-074-512)
IN THE CASE OF BOX: BOX PACKING AFTER CARRIER TAPE PACKING. (NO REEL)

NOTE :	SPEC.NO. S－０７４－６１４５ 5/5