

		SPECIFICATION (REVISIONS)		TYPE CDRH8D28	
SYMBOL	DATE	ISSUE No.	REVISIONS	CLIENT	

NOTE : THIS SPECIFICATION IS SUBJECT TO CHANGE WITHOUT NOTICE FOR IMPROVEMENT.IT IS REQUESTED THAT CONFIRMATION IS MADE WHEN ORDERING.

SPEC.NO.

S - 074 - 6174

1 / 4

# SPECIFICATION

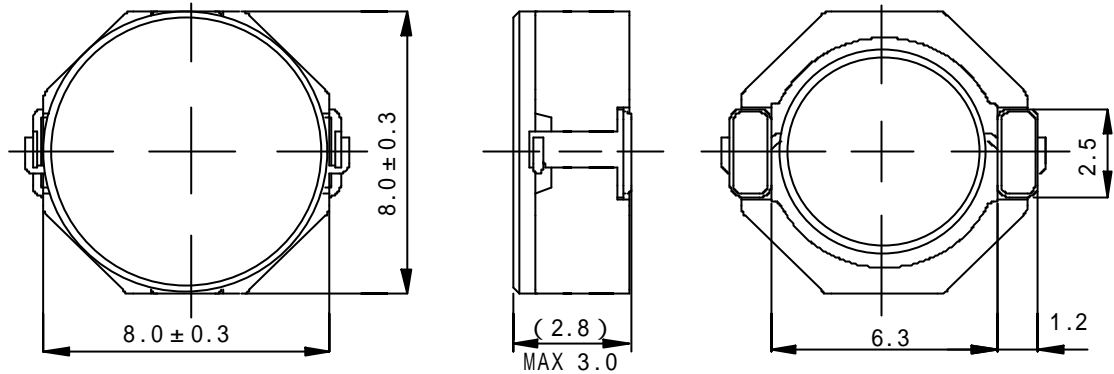
TYPE  
CDRH8D28

## 1 . SCOPE

REF. TO S-074-1510.

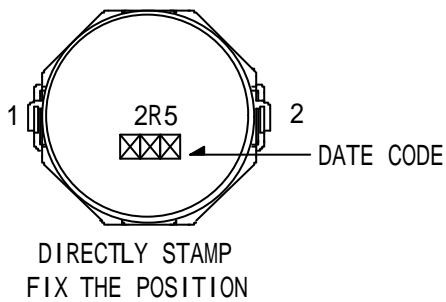
## 2 . APPEARANCE

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

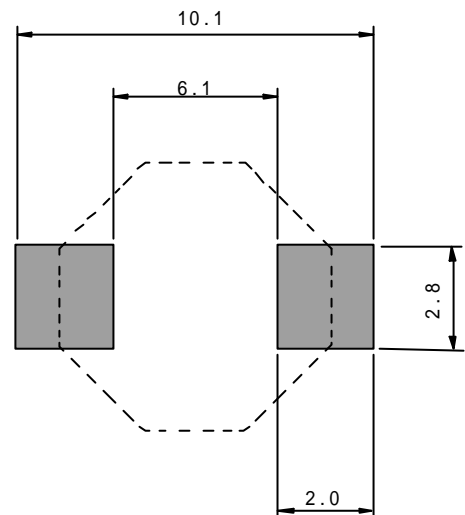


\* DIMENSIONS WITHOUT TOLERANCE ARE APPROX.

### 2-2. STAMP (Ex.)

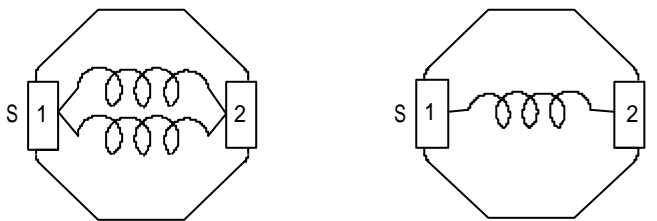


### 2-3. DIMENSION RECOMMENDED (mm)



## 3 . COIL SPECIFICATION

### 3-1 . CONNECTION (BOTTOM)



( 2.5  $\mu$ H ~ 15  $\mu$ H )      ( 22  $\mu$ H ~ 100  $\mu$ H )  
" S " IS WINDING START.

LEAD FREE

MADE: 24th Jun., 2002		PART NO.	REF. TO THE ATTACHED SHEET.	
CHK.	CHK.	DRG.	SUMIDA CODE	4782
CHEN WEIMING	HE SHIYING	WANG WEILING ZY, YC	SAMPLE NO.	4782 - T001
			FIRST ISSUE	
			SPEC. NO.	S - 074 - 6174 2 / 4

# SPECIFICATION

TYPE CDRH8D28
------------------

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

NO.	PART NO.	STAMP	INDUCTANCE	D.C.R. (m )	DC SATURATION	TEMPERATURE	SUMIDA	
			[ WITHIN ]	MAX. (TYP.)				CURRENT
			1	(at 20 )	2	(A) 3	(A) 4	
1	CDRH8D28NP-2R5NC	2R5	2.5 μH ± 30%	15.6(12)	4.50	6.40	-0034	
2	CDRH8D28NP-3R3NC	3R3	3.3 μH ± 30%	18.2(14)	4.00	6.00	-0035	
3	CDRH8D28NP-4R7NC	4R7	4.7 μH ± 30%	24.7(19)	3.40	4.50	-0036	
4	CDRH8D28NP-7R3NC	7R3	7.3 μH ± 30%	39.0(30)	2.80	3.40	-0037	
5	CDRH8D28NP-100NC	100	10 μH ± 30%	47.0(36)	2.50	3.20	-0038	
6	CDRH8D28NP-150NC	150	15 μH ± 30%	69.0(53)	1.90	2.35	-0039	
7	CDRH8D28NP-220NC	220	22 μH ± 30%	99.0(76)	1.60	1.85	-0040	
8	CDRH8D28NP-330NC	330	33 μH ± 30%	156(120)	1.30	1.45	-0041	
9	CDRH8D28NP-470NC	470	47 μH ± 30%	195(150)	1.15	1.30	-0042	
10	CDRH8D28NP-680NC	680	68 μH ± 30%	286(220)	0.92	0.98	-0043	
11	CDRH8D28NP-101NC	101	100 μH ± 30%	430(330)	0.75	0.80	-0044	

1 MEASURING FREQUENCY at 100kHz

2 ( ) TYPICAL VALUE.

3 THE SATURATION CURRENT: THIS INDICATES THE VALUE OF CURRENT WHEN THE INDUCTANCE IS OVER 65% OF THE NOMINAL VALUE. (Ta=20 )

4 THE TEMPERATURE RISE: THE ACTUAL VALUE OF D.C. CURRENT WHEN THE TEMPERATURE RISE IS t=40 (Ta=20 ).

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

NO.	PART NO.	STAMP	INDUCTANCE	D.C.R. (m )	DC SATURATION	TEMPERATURE	SUMIDA	
			[ WITHIN ]	MAX. (TYP.)				CURRENT
			1	(at 20 )	2	(A) 3	(A) 4	
12	CDRH8D28NP-2R5NB	2R5	2.5 μH ± 30%	15.6(12)	4.50	6.40	-0045	
13	CDRH8D28NP-3R3NB	3R3	3.3 μH ± 30%	18.2(14)	4.00	6.00	-0046	
14	CDRH8D28NP-4R7NB	4R7	4.7 μH ± 30%	24.7(19)	3.40	4.50	-0047	
15	CDRH8D28NP-7R3NB	7R3	7.3 μH ± 30%	39.0(30)	2.80	3.40	-0048	
16	CDRH8D28NP-100NB	100	10 μH ± 30%	47.0(36)	2.50	3.20	-0049	
17	CDRH8D28NP-150NB	150	15 μH ± 30%	69.0(53)	1.90	2.35	-0050	
18	CDRH8D28NP-220NB	220	22 μH ± 30%	99.0(76)	1.60	1.85	-0051	
19	CDRH8D28NP-330NB	330	33 μH ± 30%	156(120)	1.30	1.45	-0052	
20	CDRH8D28NP-470NB	470	47 μH ± 30%	195(150)	1.15	1.30	-0053	
21	CDRH8D28NP-680NB	680	68 μH ± 30%	286(220)	0.92	0.98	-0054	
22	CDRH8D28NP-101NB	101	100 μH ± 30%	430(330)	0.75	0.80	-0055	

1 MEASURING FREQUENCY at 100kHz

2 ( ) TYPICAL VALUE.

3 THE SATURATION CURRENT: THIS INDICATES THE VALUE OF CURRENT WHEN THE INDUCTANCE IS OVER 65% OF THE NOMINAL VALUE. (Ta=20 )

4 THE TEMPERATURE RISE: THE ACTUAL VALUE OF D.C. CURRENT WHEN THE TEMPERATURE RISE IS t=40 (Ta=20 ).

NOTE :

SPEC. NO.

S - 074 - 6174

3 / 4

# SPECIFICATION

TYPE  
CDRH8D28

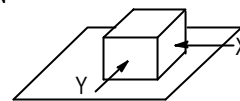
## 4 . GENERAL CHARACTERISTICS

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

4-2.OPERATING TEMPERATURE RANGE: -40 ~ +100 (COIL CONTAIN HEAT)

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  $10 \pm 2$  SECONDS AFTER SOLDERING BETWEEN COPPER PLATE AND THE ELECTRODES.  
(REFER TO FIGURE AT RIGHT)



4-5.HEAT ENDURANCE TEST : REFER TO S-074-1516.

4-6.INSULATION RESISTANCE: THE INSULATION RESISTANCE SHOULD BE OVER 100M 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  $( 0 \sim 2000 ) \times 10^{-6} / ( -40 \sim +100 )$

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

4-9.VIBRATION TEST : INDUCTANCE DEVIATION IS WITHIN  $\pm 5.0\%$  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.

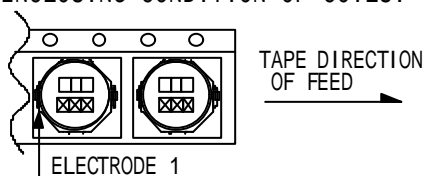
4-10.SHOCK TET : INDUCTANCE DEVIATION IS WITHIN  $\pm 5.0\%$  AFTER THE TEST WITH GUM-BLOCK SHOCK TESTING MACHINE, ONCE IN EACH OF THE THREE PERPENDICULAR AXIS DIRECTIONS. THE SHOCK ACCELERATION IS  $981m/s^2$ .

## 5 . NOTE

\* RECOMMENDED REFLOW CONDITION TO BE ACCORDING TO S-074-1517.

## 6 . PACKING

6-1.ENCLOSING CONDITION OF COILS.



6-2. IN THE CASE OF REEL:CARRIER TAPE PACKING SPECIFICATION IN DETAIL.(S-074-5148)  
IN THE CASE OF BOX:BOX PACKING AFTER CARRIER TAPE PACKING.(NO REEL)

NOTE :

SPEC.NO.

S - 0 7 4 - 6 1 7 4

4 / 4