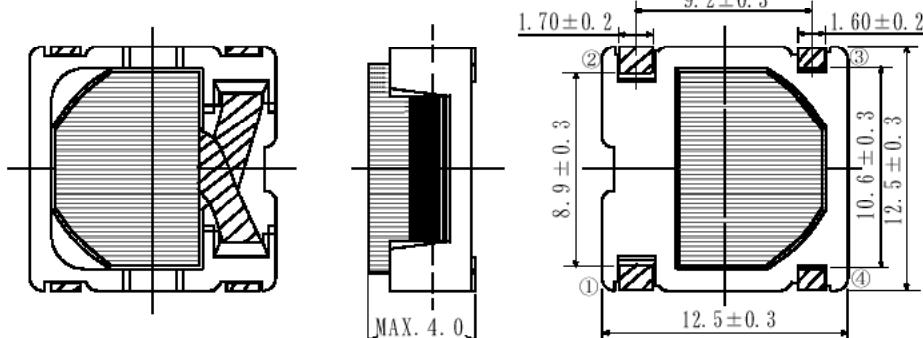


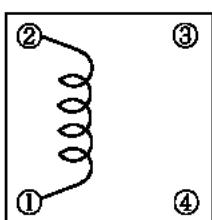
SPECIFICATION

SUMIDA TYPE C E P 1 2 D 3 8 PART NO. REF. TO P. 4/5

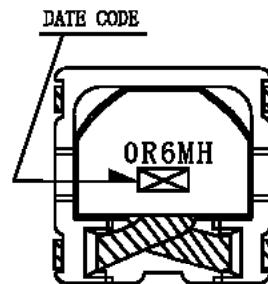
1. DIMENSION (UNIT mm)



2. CONNECTION (BOTTOM)



3. STAMP (EXP.)



4. NOTE

- * PLEASE DO NOT USE A WASHING AGENT.
- * ENCLOSING CONDITION OF COILS.



- * CARRIER TAPE PACKING SPECIFICATION IN DETAIL S-074-5089.
- * PLEASE PAY ATTENTION TO THE SUITABILITY OF THE PATTERN FOR THE CURRENT IN DESIGN.
- * RECOMMENDED REFLOW CONDITION TO BE ACCORDING TO S-074-5003.
- * PLEASE PAY ATTENTION TO SAFETY DISTANCE BETWEEN COIL PERIPHERY AND OTHER PARTS OR COPPER PATTERN, BECAUSE Mn-Zn SERIES FERRITE CORE IS USED IN THE PRODUCTS.

28th, Jun., 1999

SUMIDA CODE 4713

CHK.	CHK.	DRG.		DRG. NO. 2/5
CHEN WEIMING	HE GUOGAO	ZHONG ZIJIAN Q		S-074-6080

 sumida

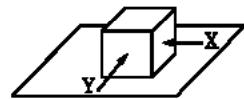
GENERAL CHARACTERISTICS

TYPE

C E P 1 2 D 3 8

1. STORAGE TEMPERATURE : -40°C ~ +100°C (COIL SINGULAR)
RANGE
2. OPERATING TEMPERATURE : -40°C ~ +100°C (COIL CONTAIN HEAT)
RANGE
3. EXTERNAL APPEARANCE : ON VISUAL INSPECTION, THE COIL HAS NO EXTERNAL DEFECTS.

4. TERMINAL STRENGTH : AFTER SOLDERING, BETWEEN COPPER PLATE AND TERMINAL OF COIL, PUSH IN TWO DIRECTIONS OF X, Y WITHSTANDING5. ON FOR 10. 0±1 SECONDS. TERMINAL SHOULD NOT PEEL OFF.
(REFER TO FIGURE AT RIGHT)



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

6. INDUCTANCE TEMPERATURE: $(0 \sim 2000) \times 10^{-6} / \text{°C}$ (-40°C ~ +100°C)
COEFFICIENT

7. HUMIDITY TEST : INDUCTANCE DEVIATION WITHIN $\pm 5.0\%$ AFTER PUTTING THE COIL INTO THE ENVIRONMENT OF 90~95% RELATIVE HUMIDITY AND TEMPERATURE OF 40±2°C FOR 96 HOURS, THEN DRYING UNDER NORMAL CONDITION FOR 2 HOUR.

8. VIBRATION TEST : INDUCTANCE DEVIATION WITHIN $\pm 3.0\%$ VIBRATION FOR 1 HOUR IN EACH OF THE THREE ORIENTATIONS VERTICALLY EACH OTHER (X, Y, Z) AT SWEEP VIBRATION (10~55~10Hz) WITH 1.5mm P-P AMPLITUDE.

9. SHOCK TEST : INDUCTANCE DEVIATION WITHIN $\pm 3.0\%$ TESTED IN EACH OF THE THREE ORIENTATIONS VERTICALLY FOR 1 TIME AT THE SHOCK ACCELERATION OF 981m/s² (100G), USING RUBBER BLOCK SHOCK TESTING MACHINE.

28th, Jun., 1999

CHK.	CHK.	DRG.
CHEN WEIMING	HE GUOGAO	ZHONG ZIJIAN Q

DRG. NO.	3 / 5
S-074-6080	



SPECIFICATION

TYPE

CEP12D38

ELECTRICAL CHARACTERISTICS-1

NO.	PART NAME	STAMP	INDUCTANCE [WITHIN] ※ 1	D. C. R. (mΩ) [MAX.] ※ 2 (at 20°C)	THE SATURATION CURRENT (A) ※ 3		TEMPERATURE RISE (A) ※ 4 ΔT=40°C	SUMIDA CODE
					(at 20°C)	(at 100°C)		
0 1	CEP12D38-ØR6MC-H	0R6MH	0.6 μ H ± 20%	6.0 (5.0)	24.4	20.0	11.5	-0002
0 2	CEP12D38-1R1MC-H	1R1MH	1.1 μ H ± 20%	7.2 (6.0)	18.1	14.6	10.0	-0003
0 3	CEP12D38-1R8MC-H	1R8MH	1.8 μ H ± 20%	8.6 (7.1)	13.9	11.5	9.5	-0004
0 4	CEP12D38-2R6MC-H	2R6MH	2.6 μ H ± 20%	12.1 (10.1)	12.2	9.9	8.0	-0005

ELECTRICAL CHARACTERISTICS-2

NO.	PART NAME	STAMP	INDUCTANCE [WITHIN] ※ 1	D. C. R. (mΩ) [MAX.] ※ 2 (at 20°C)	THE SATURATION CURRENT (A) ※ 3		TEMPERATURE RISE (A) ※ 4 ΔT=40°C	SUMIDA CODE
					(at 20°C)	(at 100°C)		
0 5	CEP12D38-1RØMC	1R0M	1.0 μ H ± 20%	6.0 (5.0)	14.8	12.2	11.5	-0006
0 6	CEP12D38-1R8MC	1R8M	1.8 μ H ± 20%	7.2 (6.0)	11.0	9.0	10.0	-0007
0 7	CEP12D38-2R8MC	2R8M	2.8 μ H ± 20%	8.6 (7.1)	8.8	7.4	9.5	-0008
0 8	CEP12D38-4RØMC	4R0M	4.0 μ H ± 20%	12.1 (10.1)	7.2	6.2	8.0	-0009

※ 1 : MEASURED AT FREQUENCY OF 1 0 0 k H z 1 V

※ 2 : D. C. R. () TYPICAL VALUE.

※ 3 : THE SATURATION CURRENT: THIS INDUCTANCE THE VALUE OF CURRENT WHEN THE INDUCTANCE IS OVER 75% OF THE NOMINAL VALUE.

※ 4 : THE TEMPERATURE RISE: THE VALUE OF D. C. CURRENT WHEN THE TEMPERATURE RISE IS $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

28th, Jun., 1999

SUMIDA CODE

4713

CHK.	CHK.	DRG.		DRG. NO.	4/5
CHEN WEIMING	HE GUOGAO	ZHONG ZIJIAN Q		S-074-6080	

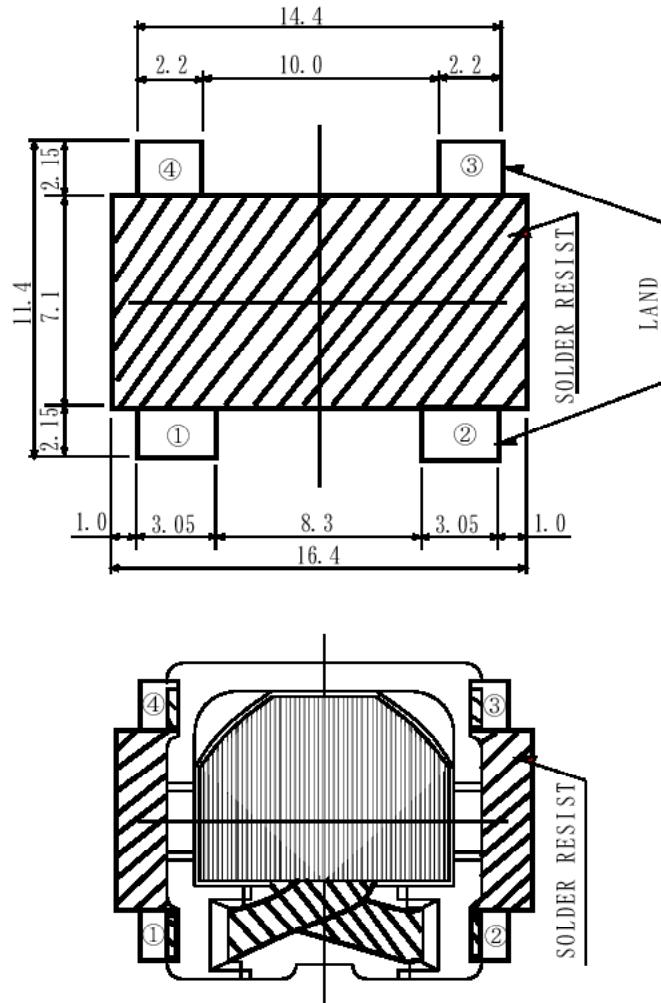
 sumida

SPECIFICATION

TYPE

C E P 1 2 D 3 8

RECOMMENDED DIMENTION OF LAND (mm)



* RECOMMENDED METAL MASK THICKNESS IS 0.2mm.

28th, Jun., 1999

CHK.	CHK.	DRG.
CHEN WEIMING	HE GUOGAO	ZHONG ZIJIAN Q

DRG. NO.	5 / 5
S-074-6080	

 sumida