

		SPECIFICATION (REVISIONS)		TYPE CEEH96
SYMBOL	DATE	ISSUE No.	REVISIONS	CLIENT
△ ₁	28th, Mar., 2005	PG05-D125	ELECTRICAL PERFORMANCE SPECIFICATIONS (3, 4-5, 6) INDUCTANCE MEASURING CONDITION CHANGED: 100kHz/0.1V & 12Adc FOR 0.25 SECONDS ← 100kHz/0.1V & 12Adc (P. 3/4)	CRD MARK HAN
△ ₂	21st, Apr., 2005	PG05-D158-29	MARKER CHANGED : RoHS COMPLIANCE ← LEAD FREE (P. 2/4)	CRD ZENG YUN XIA
△ ₃	19th, May, 2006	PG06-D302-2	D.C.R. Specification revision: (1-8)間: 440mΩ ← 390mΩ, (8-2)間: 480mΩ ← 420mΩ, (2-7)間: 520mΩ ← 460mΩ (P. 3/4)	C-Lab Feng Neng

NOTE :

THIS SPECIFICATION MIGHT BE CHANGED WITHOUT NOTICE DUE TO UNDER DEVELOPING AND IMPROVING. THANK YOU FOR YOUR UNDERSTANDING.

SPEC. NO.

S-074-6431

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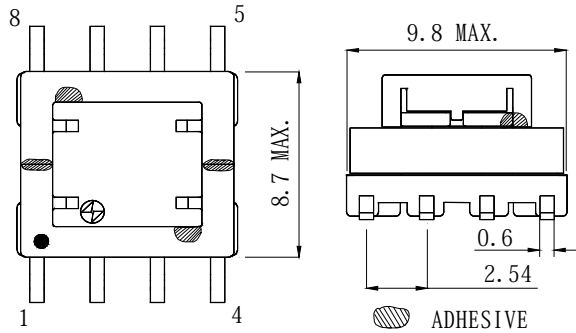
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1. SCOPE AND GENERAL STIPULATIONS. REF. TO S-074-1510.

2. APPEARANCE

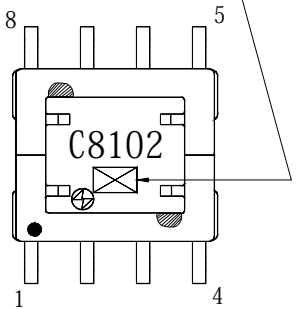
2-1. DIMENSION (mm)



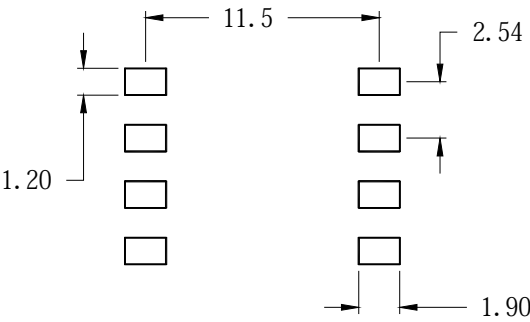
- * DIMENSION DOES NOT INCLUDE SOLDER USED ON COIL.
- * DIMENSIONS WITHOUT TOLERANCE ARE APPROX.
- * "●" WHITE DOT INDICATES PIN#1

2-2. STAMP

STAMP • DATE CODE

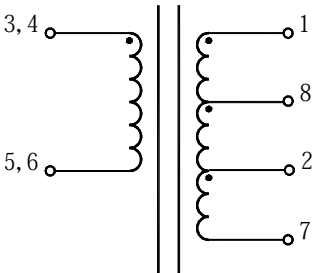


2-3. RECOMMENDED LAND PATTERNS DIMENSION(mm)



3. COIL SPECIFICATION

3-1. TERMINAL CONNECTION



RoHS

compliance
Cd:Max.0.01wt%
others:Max.0.1wt%



MADE: 29th. Dec., 2004			PART NAME	C8102	
CHK.	CHK.	DRG.	SUMIDA CODE	4347 0002	
LIU YUEJIANG	WAN JUN	HAN LICHENG HP	SAMPLE NO.	P04NZ-041	SPEC. NO. S-074-6431 2/4
			FIRST ISSUE		

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3-2. ELECTRICAL PERFORMANCE SPECIFICATIONS

CHARACTERISTIC	SPECIFICATION	MEASURING CONDITION
INDUCTANCE (3, 4-5, 6) ※1	0.85 μ H MAX.	100kHz/0.1V,
INDUCTANCE (3, 4-5, 6) ※1	0.675 μ H MIN.	100kHz/0.1V & 12Adc FOR 0.25 SECONDS
D. C. R. (1-8)	440m Ω MAX.	At 25°C
D. C. R. (8-2)	480m Ω MAX.	At 25°C
D. C. R. (2-7)	520m Ω MAX.	At 25°C
D. C. R. (3-6)	60m Ω MAX.	At 25°C
D. C. R. (4-5)	70m Ω MAX.	At 25°C
LEAKAGE INDUCTANCE (3, 4-5, 6) ※1	0.16 μ H MAX. (REF.)	100kHz/0.1V(1, 2, 7, 8) SHORT
BREAKDOWN VOLTAGE BETWEEN (3, 4, 5, 6) AND (1, 2, 7, 8)	500 Vrms for 1s	50/60Hz
BREAKDOWN VOLTAGE BETWEEN (1, 2, 3, 4, 5, 6, 7, 8) AND CORE	500 Vrms for 1s	50/60Hz

※1 STRAP PIN#3, 4 AND PIN#5, 6 WHEN TESTING INDUCTANCE AND LEAKAGE INDUCTANCE.

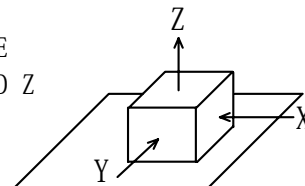
4. GENERAL CHARACTERISTICS

4-1. STORAGE TEMPERATURE RANGE : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

4-2. OPERATING TEMPERATURE RANGE : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ (INCLUDING COIL'S SELF TEMPERATURE RISE)

4-3. EXTERNAL APPEARANCE : THERE SHOULD BE NO CRACK, FRAGMENT, STAIN, BEND, RUST AND DISTINCT WHEN IN VISUAL INSPECTION.

4-4. FIXING STRENGTH : NO TERMINAL DETACHMENT SHOULD BE FOUND WHEN THE DEVICE IS PUSHED IN THREE DIRECTIONS OF X, Y AND Z WITH THE FORCE OF 5.0N FOR 60 ± 5 SECONDS AFTER SOLDERING BETWEEN COPPER PLATE AND THE TERMINALS. (REFER TO FIGURE AT RIGHT)



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

4-6. RECOMMENDED REFLOW : REFER TO S-074-1518.
CONDITIONS

4-7. INSULATION RESISTANCE: THE INSULATION RESISTANCE SHOULD BE OVER 100M Ω WHEN 100V DC IS APPLIED TO COIL-EXTERMINAL PARTS, MEANWHILE NO STRUCTURE AND ELECTRIC DEFECTS SHOULD BE FOUND FOR 1 MINUTE.

NOTE :

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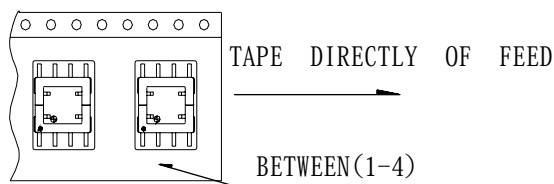
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- 4-8. VIBRATION TEST : INDUCTANCE DEVIATION IS WITHIN $\pm 5.0\%$ AFTER 1 HOUR SWEEPING VIBRATION ONCE IN EACH OF THE THREE PERPENDICULAR AXIS DIRECTIONS. THE FREQUENCY IS 10~55~10Hz AND THE AMPLITUDE OF 1 MINUTE CYCLE IS 1.5mm PP.
- 4-9. SHOCK TEST : 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 .
- 4-10. HUMIDITY TEST : INDUCTANCE DEVIATION IS WITHIN $\pm 5.0\%$ 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 $40^\circ\text{C} \pm 2^\circ\text{C}$, THE INDUCTANCE DEVIATION IS MEASURED AFTER IT IS TAKEN OUT AND KEPT UNDER NORMAL CONDITIONS FOR MORE THAN 1 HOUR AND LESS THAN 2 HOURS.
- 4-11. TESTING CONDITIONS : WITHOUT SPECIFIED CONDITIONS, THE TEST SHALL BE CONDUCTED UNDER NORMAL TESTING CONDITION OF TEMPERATURE $5^\circ\text{C} \sim 35^\circ\text{C}$ AND RELATIVE HUMIDITY 45~85%. IF THERE IS ANY DOUBT ABOUT THE JUDGEMENT, THE TEST SHALL BE CONDUCTED IN THE FIXED TEMPERATURE OF $20^\circ\text{C} \pm 2^\circ\text{C}$ AND RELATIVE HUMIDITY OF $65 \pm 5\%$.
- 4-12. LABELLING : THE PART NUMBER AND LOT NUMBER SHALL BE STAMPED ON THE PLACE SAFE FROM ERASURE.
- 4-13. PACKING : THE SMALLEST PACKAGE SHALL BE ALSO BE LABELLED WITH PART NUMBER, AND IN PACKING, CONSIDERATION SHALL BE GIVEN TO PREVENTION OF DAMAGE IN TRANSPORTATION AND STORAGE.

5. PACKING SPECIFICATION

5-1. ENCLOSING CONDITION OF COILS.



5-2. CARRIER TAPE PACKING SPECIFICATION IN DETAIL. (S-074-5253)

IN THE CASE OF BOX: BOX PACKING AFTER CARRIER TAPE PACKING. (NO REEL)

NOTE :

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