

产品承认书

SAMPLE APPROVAL SHEET

承认后请回传一份 PLS SEND BACK ONE COPY TO US AFTER YOUR APPROVAL

承认结果 CONCLUSION	客户签名 SIGNATURE	客户承认章 STAMP	日期 DATE	备注 REMARK
合格 ACCEPT				
不合格 REJECT				

制表:	童娟	审核: _	
			(公章)

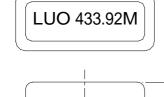
尊敬的客户:请您抽取一点时间,在7-10个工作日内将承认书回签,若未回签,已视默认.谢谢合作!!!

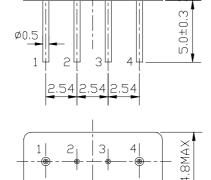
1. Package Dimension

(F-11)

Unit:

mm





11.3MAX

Pin No. Function

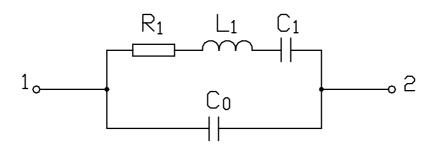
- 1. Input
- 2. G round
- 3. G round
- 4. O utput

2. Marking

LUO433.92M

- 1. Color: Black or Blue
- 2. D: Manufacture's logo
- 3. R1: One-port SAW Resonator
- 4. 433.92: Center Frequency (MHz)

3. Equivalent LC Model



4. Performance

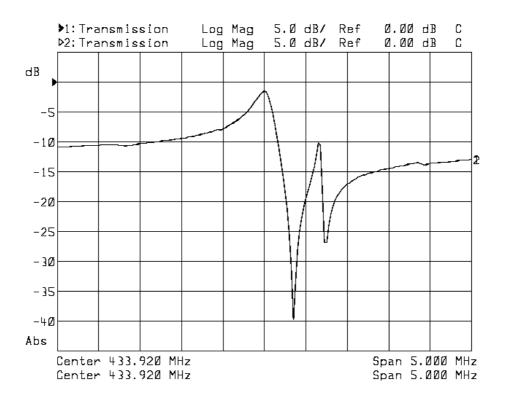
4.1 Maximum Rating

DC Voltage V _{DC}	10V		
AC Voltage V _{PP}	10V (50Hz/60Hz)		
Operation Temperature	-40 ℃ to +85℃		
Storage Temperature	-45 ℃ to +85℃		
RF Power Dissipation	0dBm		

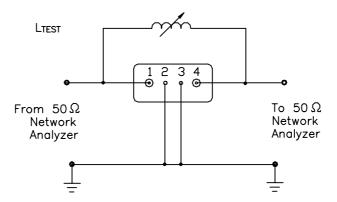
4.2 Electronic Characteristics

Item		Units	Minimum	Typical	Maximum
Center Frequency		MHz	433.845	433.92 433	3.995
Insertion Loss		dB		1.3	2.5
Quality Factor	Unloaded Q		_	11,000	
	50 Ω Loaded Q	_	_	2,000	_
Tem perature	Turnover Temperature	$^{\circ}$	_	25	
Stability	Turnover Frequency	KHz	_	fo	_
	Freq. Temp. Coefficient	ppm/°C²	_	0.032	
Frequency Aging		ppm/yr	_	< <u>±</u> 10	_
DC Insulation Resistance		ΜΩ	1.0		
RF Equivalent RLC Model	Motional Resistance R ₁	Ω	_	18	26
	Motional Inductance L ₁	μН	_	86	
	Motional Capacitance C ₁	fF	_	1.56	_
	Shunt Static Capacitance Co	pF	1.7	2.0	2.3

4.3 Frequency Characteristics



4.4 Test Circuit



Note: Reference temperature shall be $25 \pm 2^{\circ}$ C. However, the measurement may be carried out at 5° C to 35° C unless there is a dispute.

5. Reliability

- 5.1 Mechanical Shock: The components shall remain within the electrical specifications after 1000 shocks, acceleration 392 m/s², duration 6 milliseconds.
- 5.2 Vibration Fatigue: The components shall remain within the electrical specifications after loaded vibration at 20 Hz, amplitude 1.5 mm, for 2 hours.
- 5.3 Terminal Strength: The components shall remain within the electrical specifications after pulled 2 kgs weight for 10 seconds towards an axis of each terminal.
- 5.4 High Temperature Storage: The components shall remain within the electrical specifications after being kept at the $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 48 hours, then kept at room temperature for 2 hours.
- 5.5 Low Temperature Storage: The components shall remain within the electrical specifications after being kept at the -25 °C ± 2 °C for 48 hours, then kept at room temperature for 2 hours.
- 5.6 Temperature Cycle: The components shall remain within the electrical specifications after 5 cycles of high and low temperature testing (one cycle: 80° C for 30 minutes \rightarrow 25°C for 5 minutes \rightarrow -25°C for 30 minutes)than kept at room temperature for 2 hours.
- 5.7 Solder-heat Resistance: The components shall remain within the electrical specifications after dipped in the solder at 260° C for 10 ± 1 seconds, then kept at room temperature for 2 hours. (Terminal must be dipped leaving 1.5 mm from the case).
- 5.8 Solder Ability: Solder ability of terminal shall be kept at more than 80% after dipped in the solder flux at $230^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 5 ± 1 seconds.

6. Remarks

6.1 Static voltage

Static voltage between signal load & ground may cause deterioration & destruction of the component. Please avoid static voltage.

6.2 Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid

ultrasonic cleaning.

6.3 Soldering

Only leads of component may be soldered. Please avoid soldering another part of component.