

產品規格書

Market Requirement Document

	CUSTO	OMER:			-
PRODUCT:			声表面谐振器		
MODEL:			TO-39-DIP		
PARAMETER:		ETER:	R433.92M		
DATE:					•
		_			•
	承記	忍後請寄回·	一份		
PLEASE RI	ETURN ONE CO	OPY TO US SO TH	łAT WI	E GET YOUR	R APPROVAL
承認結果	客戶簽名	客戶承認章		日期	備注
CONCLUSION	SIGNATURE	STAMP		DATE	REMARK
合格					
ACCEPT					
不合格					
REJECT					
制表: 钟先生		1	审核:		
			, ,,,,		(公章)
黄粉的旁白, 海你州山	4一点时间 左710人	工作口出收予31 北同校	杜士同於	17.700甲43.1 3年3年。	Δ <i>I</i> Ε 1

電話: 0755-27876236

http://www.zhaoxiandz.com

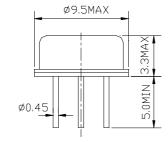
1. Package Dimension

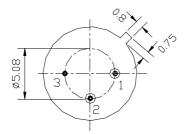
(TO-39/3A)











Pin No. Function

- 1. Input
- 2. Output
- 3. Ground

2. Marking

Z X R433.92

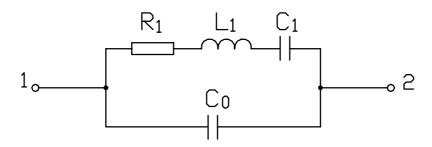
1. Color: Black or Blue

2. D: Manufacture's logo

3. R1: One-port SAW Resonator

4. 433.92: Center Frequency (MHz)

3. Equivalent LC Model



4. Performance

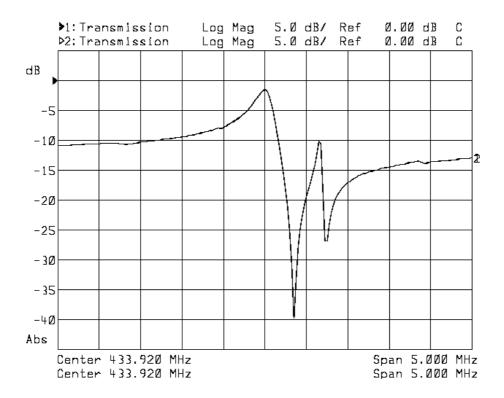
4.1 Maximum Rating

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

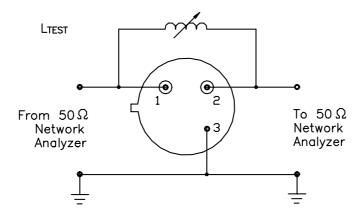
4.2 Electronic Characteristics

I tem		Units	Minimum	Typical	Maximum
Center Frequency		MHz	433.845	433.920	433.995
Insertion Loss		dB	_	1.2	2.5
Quality Factor	Unloaded Q		_	11,000	
	50 Ω Loaded Q			2,000	
Temperature	Turnover Temperature	$^{\circ}$		25	
Stability	Turnover Frequency	KHz		fo	
	Freq. Temp. Coefficient	ppm/°C ²	_	0.032	_
Frequency Aging		ppm/yr	_	< <u>±</u> 10	
DC Insulation Resistance		ΜΩ	1.0	_	
	Motional Resistance R ₁	Ω	_	18	26
RF Equivalent	Motional Inductance L ₁	μН	_	86	
RLC Model	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 $25\pm2^{\circ}$ 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 $-25^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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 → 25°C for 5 minutes→-25°C for 30 minutes) than kept at room temperature for 2 hours.
- 5.7 Humidity Test: The components shall remain within the electrical specifications after being kept at the condition of ambient temperature $40\pm2^{\circ}C$, and $90\sim95\%$ RH for 48 hours, then kept at room temperature and normal humidity for 2 hours.
- 5.8 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).
- 5.9 Solderability: Solderability 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.