

產品規格書

Market Requirement Document

CUSTOMER:

PRODUCT :

MODEL:

PARAMETER:

DATE:

声表面谐振器

F11-R330M

R330M

承認後請寄回一份

PLEASE RETURN ONE COPY TO US SO THAT WE GET YOUR 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

审核:

(公章)

尊敬的客户:请您抽出一点时间,在7-10个工作日内将承认书回签,若未回签,以视默认.谢谢合作!

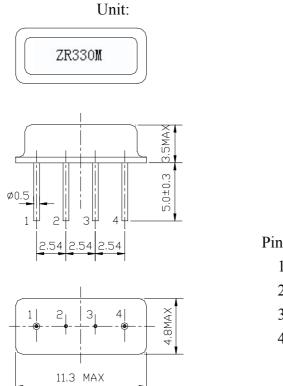
深圳市兆现电子有限公司

電話:0755-27876236

http://www.zhaoxiandz.com

1. Package Dimension





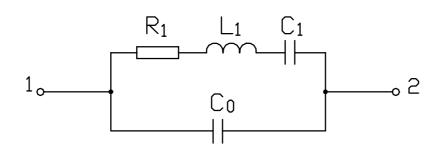
Pin No. Function

mm

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

2. Marking

- ZX 330.00
- 1. Color: Black or Blue
- 2. D: Manufacture's logo
- 3. R1: One-port SAW Resonator
- 4. 330.00: Center Frequency (MHz)
- 3. Equivalent LC Model



4. Performance

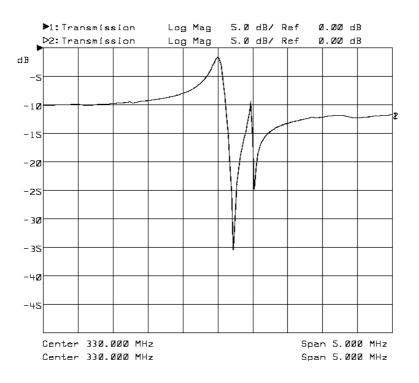
4.1 Maximum Rating

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		

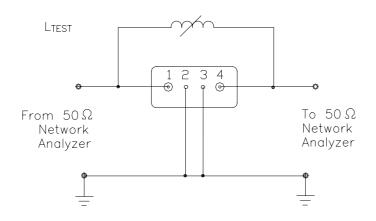
4.2 Electronic Characteristics

Item		Units	Minimum	Typical	Maximum
Center Frequency fo		MHz	329.925	330.00	330.075
Insertion Loss		dB		1.3	2.5
Quality Factor	Unloaded Q	_		10,700	
	50Ω Loaded Q			2,000	
Tem perature	Turnover Temperature	°C		39	
Stability	Turnover Frequency	KHz		fo+2.7	
	Freq. Temp. Coefficient	ppm/°C ²		0.032	
Frequency Aging		ppm/yr		<±10	
DC Insulation Resistance		ΜΩ	1.0		
RF Equivalent RLC Model	Motional Resistance R ₁	Ω		25	32
	Motional Inductance L ₁	μH		130.92	
	Motional Capacitance C ₁	fF	_	1.78	—
	Shunt Static Capacitance Co	pF	1.9	2.2	2.5

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/s^2 , 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°C ± 2 °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 $-25^{\circ}C \pm 2^{\circ}C$ 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 Solderability: Solderability of terminal shall be kept at more than 80% after dipped in the solder flux at $230^{\circ}C \pm 5^{\circ}C$ 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.