

# Octngv'Tgs wht go gpv'F qewo gpv

**CUSTOMER:** 

RTQFWEV:

''''' **OQFGN**:

'RCTCO GVGT:

**'''''DATE:** 

''''声表面谐振器

TO-39-DIP

**R315M** 

# 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)

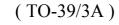
尊敬的客户:请您抽出一点时间,在7-10个工作日内将承认书回签,若未回签,以视默认.谢谢合作!

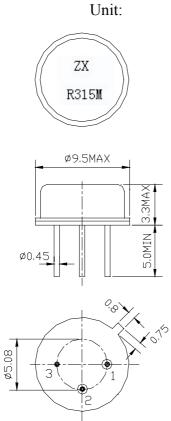
深圳市 电子有限公司

電話:0755-27876236

http://www.zhaoxiandz.com

1. Package Dimension



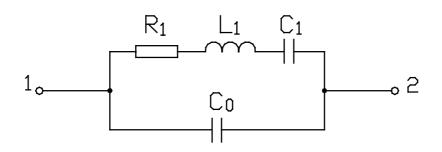


Pin No. Function

mm

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

- 2. Marking
  - ΖX
  - R315.00
    - 1. Color: Black or Blue
    - 2. DR: Manufacture's logo
    - 3. 1: One-port SAW Resonator
  - 4. 315.00: Center Frequency (MHz)
  - 3. Equivalent LC Model



# 4. Performance

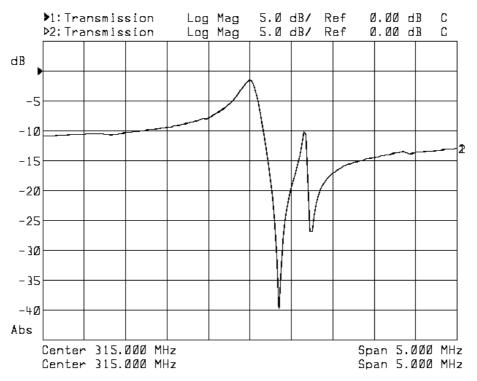
# 4.1 Maximum Rating

DC Voltage V <sub>DC</sub>	10V		
AC Voltage V <sub>PP</sub>	10V (50Hz/60Hz)		
Operation Temperature	-40 to +85		
Storage Temperature	-45 to +85		
RF Power Dissipation	0dBm		

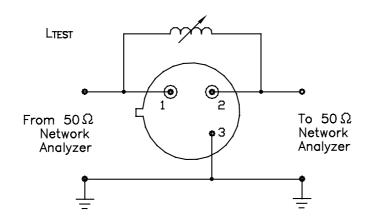
### 4.2 Electronic Characteristics

Item		Units	Minimum	Typical	Maximum
Center Frequency		MHz	314.925	315	315.075
Insertion Loss		dB	_	1.3	2.5
Quality Factor	Unloaded Q	—	_	12,000	
	50 Loaded Q			1,900	—
Temperature	Turnover Temperature		10	25	40
Stability	Turnover Frequency	KHz		fo	
	Freq. Temp. Coefficient	ppm/ <sup>2</sup>	_	0.037	
Frequency Aging		ppm/yr	_	<±10	
DC Insulation Resistance		М	1.0		—
	Motional Resistance R <sub>1</sub>			23	29
RF Equivalent	Motional Inductance L <sub>1</sub>	μH		115.2	
RLC Model	Motional Capacitance C <sub>1</sub>	fF	_	2.2	—
	Shunt Static Capacitance Co	pF	2.1	2.4	2.7

#### 4.3 Frequency Characteristics



4.4 Test Circuit



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

### 5. Reliability

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5.1 Mechanical Shock: The components shall remain within the electrical specifications after 1000 shocks, acceleration  $392 \text{ m/s}^2$ , 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  $85 \pm 2$  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  $\pm 2$  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 for 30 minutes
25 for 5 minutes -25 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 for  $10\pm1$  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  $\pm 5$  for  $5\pm 1$  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.