

产品确认书

**Product Confirmation** 

CUSTOMER:

Product :

**Frequency:** 

Model:

**DATE:** 

**R330M** 

声表面谐振器

**F-11 DIP** 

# 承认后请寄回一份

PLS SEND BACK ONE COPY TO US AFTER YOUR APPROVAL

承认結果	客戶签名	客戶承认章	日期	备注
CONCLUSION	SIGNATURE	STAMP	DATE	REMARK
合格 ACCEPT				
不合格				
REJECT				

制表: 刘小姐

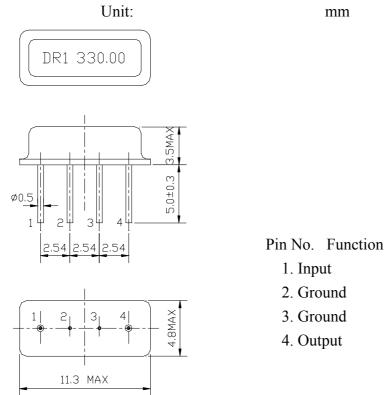
审核:

(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!

## 1. Package Dimension

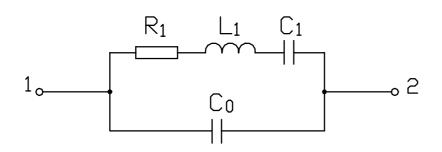
(F-11)



2. Marking

## TH 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

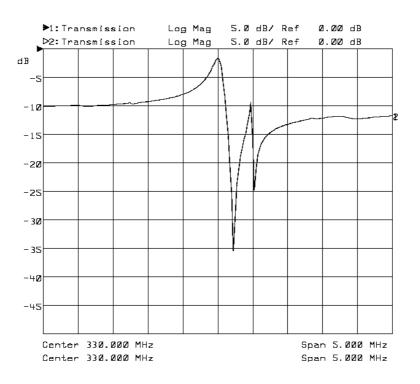
## 4.1 Maximum Rating

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

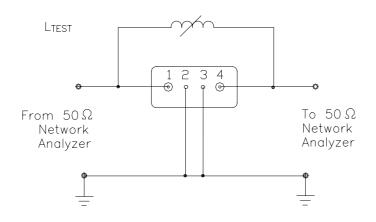
## 4.2 Electronic Characteristics

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	
	$50\Omega$ Loaded Q			2,000	
Tem perature	Turnover Temperature	°C		39	
Stability	Turnover Frequency	KHz		fo+2.7	
	Freq. Temp. Coefficient	ppm/°C <sup>2</sup>		0.032	
Frequency Aging		ppm/yr		<±10	
DC Insulation Resistance		ΜΩ	1.0		
RF Equivalent	Motional Resistance R <sub>1</sub>	Ω		25	32
	Motional Inductance L <sub>1</sub>	μH		130.92	
	Motional Capacitance C <sub>1</sub>	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  $392 \text{ m/s}^2$ , 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°C  $\pm 2$ °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:  $80^{\circ}$ 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  $10\pm1$  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  $5 \pm 1$  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.