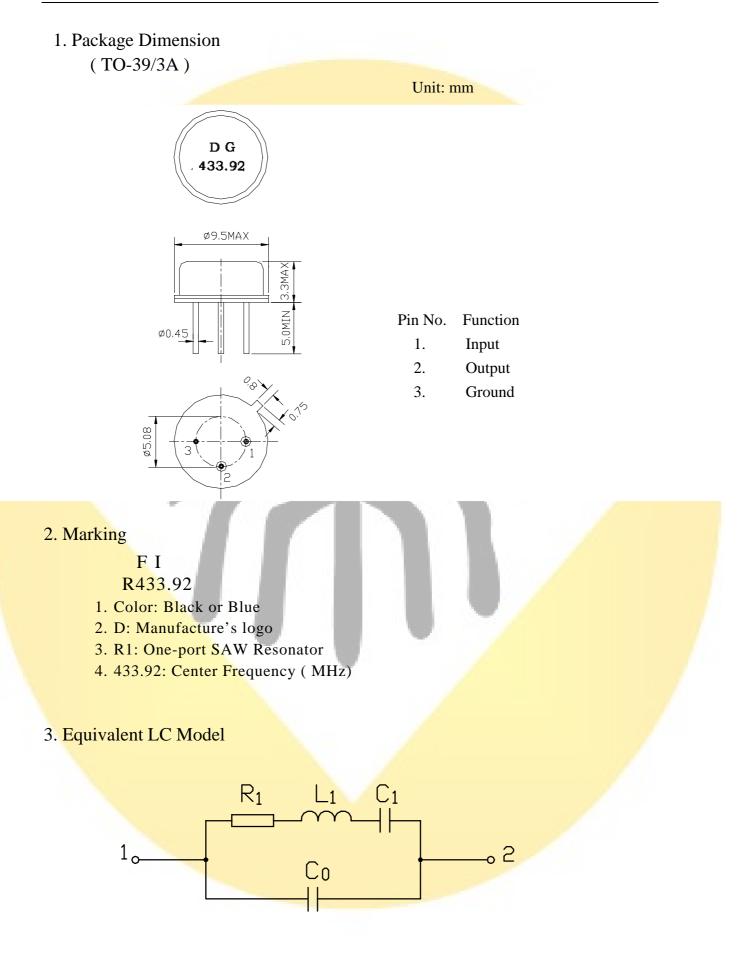


# 深圳市帝国科技有限公司

SHENZHEN DIGUO TECHONLOGY CO., LTD

	规格书 Specification					
	CUSTOME: Name	R 客户: e 名称:	市表電	谐 <mark>振器</mark>	-	
	Model 型号:		R433.92M		- -	
	Packag	e 封装:	10-	39-DIP		
4	审核结果 Audit results 合格	客戶簽名 SIGNATURE	日期 DATE	備注 REMARK		
	ACCEPT 不合格 REJECT		_			
工程 <u>:</u>	刘玖武		审核:		(公章)	
帝国科技 http	://www.dgkjly.	com Tel:07	755-278811	19 QQ: 92	1977998	



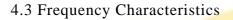
## 4. Performance

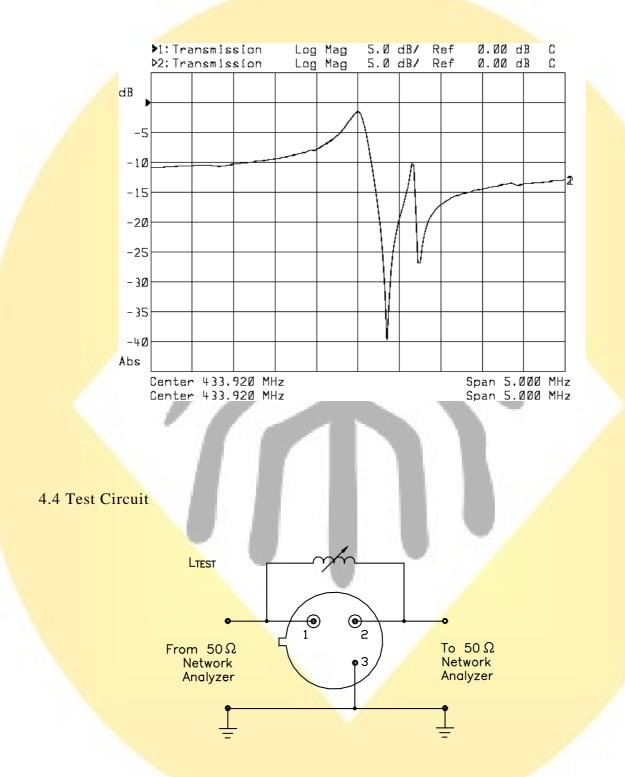
## 4.1 Maximum Rating

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

	and the second sec				i
Item		Units	Minimum	Typical	Maximum
Center Frequency		MHz	433.845	433.920	43 <mark>3.995</mark>
Insertion Loss		dB		1.2	2.5
Quality Factor	Unloaded Q	F		11,000	4
	$50 \Omega$ Loaded Q	Ι		2,000	_
Temperature	Turnover Temperature	Ĉ	-	25	
Stability	Turnover Frequency	KHz		fo	
	Freq. Temp. Coefficient	ppm/°C <sup>2</sup>	-/	0.032	
Frequency Aging		ppm/yr	-	<±10	
DC Insulation Resistance		MΩ	1.0	_	_
	Motional Resistance R <sub>1</sub>	Ω		18	26
RF Equivalent	Motional Inductance L <sub>1</sub>	μH		86	-
RLC Model	Motional Capacitance C <sub>1</sub>	fF		1.56	
	Shunt Static Capacitance Co	pF	1.7	2.0	2.3





Note: Reference temperature shall be  $25\pm2$ °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  $85^{\circ}C\pm 2^{\circ}C$  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 Humidity Test: The components shall remain within the electrical specifications after being kept at the condition of ambient temperature  $40\pm2$ °C, and 90~95% 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  $10\pm1$  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  $230^{\circ}C \pm 5^{\circ}C$  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.