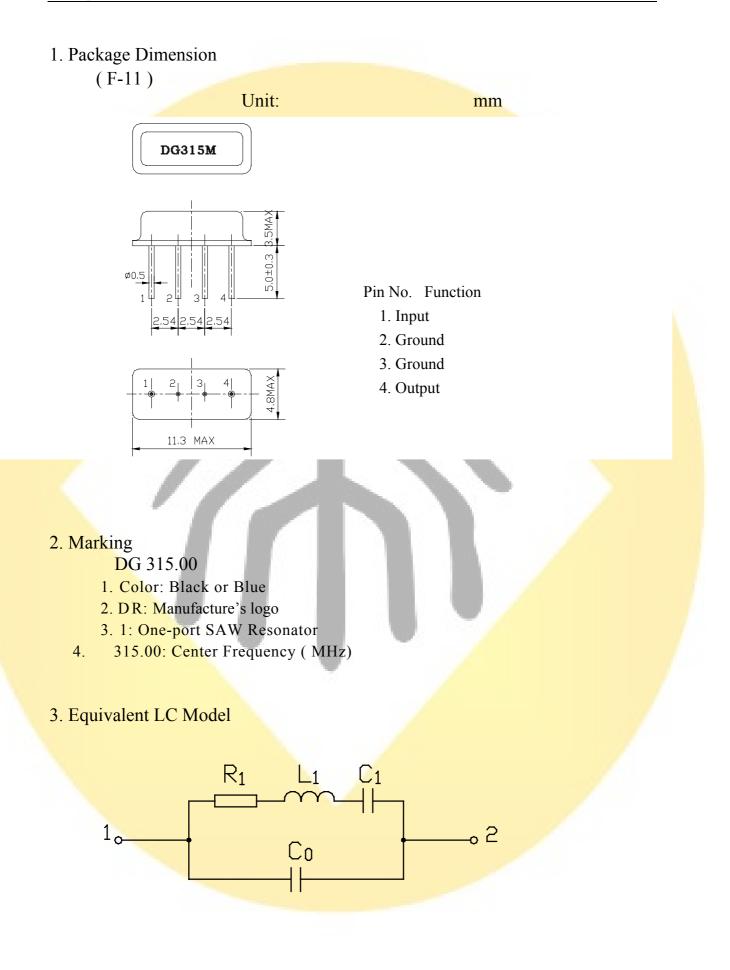


# 深圳市帝国科技有限公司

SHENZHEN DIGUO TECHONLOGY CO., LTD

		规	格书			
		SI	pecifi <mark>cati</mark>	on		
	CUSTOME	R 客户:				
	Name 名称: Model 型号:		声表面谐振器 R315M		-	
	Package 封装:		F11-DIP			
				1		
	审核结果	客戶簽名	日期	備注		
	Audit results	SIGNATURE	DATE	REMARK		
	合格					
	ACCEPT		_			
	不合格 REJECT					
	REJECT				1	
工利	呈: 刘玖武		审核:			
					(公章)	
帝国科技 h	ttp://www.dgkjly.	com Tel:07	755-278811	19 QQ: 921	.977998	



# 4. Performance

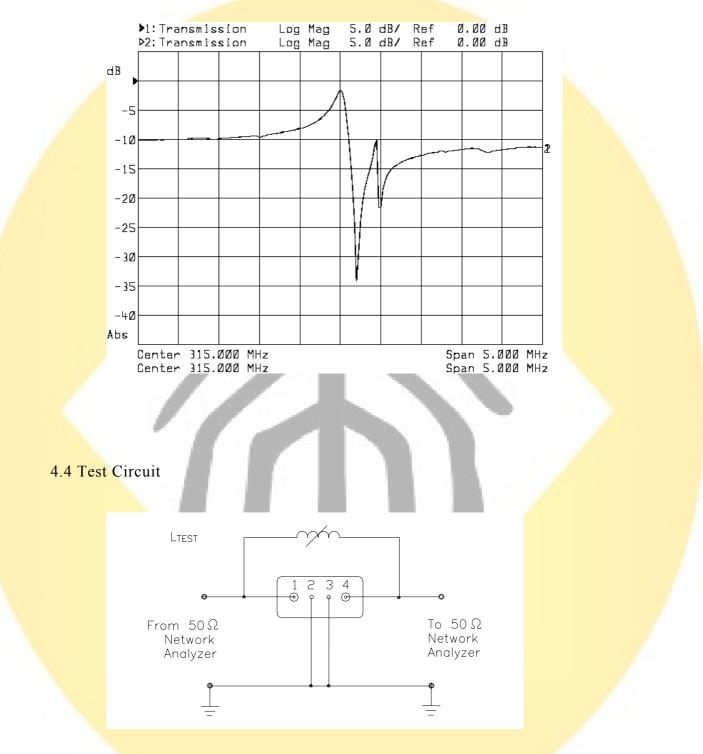
4.1 Maximum Rating

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	T <mark>ypical</mark>	Maximum
Center Frequency fo		MHz	314.925	315	315.075
Insertion Loss		dB	-	1.3	2.5
Quality Factor	Unloaded Q	1	ľ	12,000	-
	50 Loaded Q	F	-	1,900	/-
Tem perature	Turnover Temperature		10	25	40
Stability	Turnover Frequency	KHz		fo	—
	Freq.Temp.Coefficient	ppm/ <sup>2</sup>	1	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	-
RL <mark>C Model</mark>	Motional Capacitance C <sub>1</sub>	fF	—	2.2	
	Shunt Static Capacitance Co	pF	2.1	2.4	2.7

## 4.3 Frequency Characteristics



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

5.1 Mechanical Shock: The components shall remain within the electrical specifications after 1000 shocks, acceleration 392 m/s<sup>2</sup>, 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  $10 \pm 1$  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  $\pm 5$  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.