渝

深圳市帝国科技有限公司

SHENZHEN DIGUO TECHONLOGY CO., LTD

规格书

	Specification							
	CUSTOME	R 客户:			-	N		
	Name 名称:			声表面谐振器				
	Mode	1 型号:	R3	315M				
	Packag	e 封装:	TO-	39-DIP	No.			
		/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							
工程	: 刘玖武	_	审核:		(11 7)			
					(公章)			

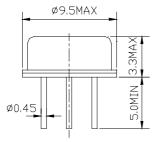
帝国科技 http://www.dgkjly.com Tel:0755-27881119 QQ: 921977998

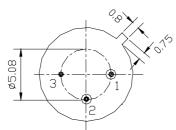
1. Package Dimension

(TO-39/3A)

Unit: mm







Pin No. Function

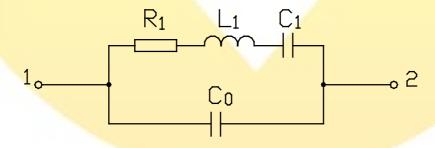
- 1. Input
- 2. Output
- 3. Ground

2. Marking

D G 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

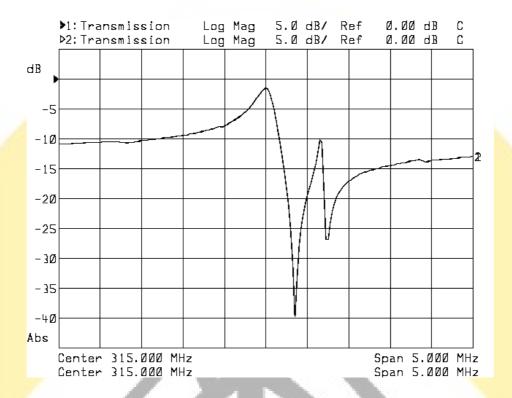
4.1 Maximum Rating

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

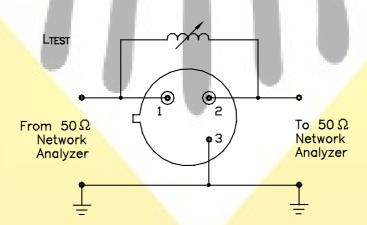
4.2 Electronic Characteristics

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

4.3 Frequency Characteristics



4.4 Test Circuit



Note: Reference temperature shall be 25±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/s², 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 ±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 ±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±1 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 ±5 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.