APPROVAL SHEET

Approval Specification		Customer's Approval Certificate
TO:		**Checked & Approved by:**
Part No.:		**Date:**
Customer's Part No.:		Please return this copy as a certification of your approval

BEIJING ZHONGXUN SIFANG SCIENCE & TECHNOLOGY CO.,LTD.

Tel: +86-010-58937383
Fax: +86-010-58937263
E-mail: zxsf_sales@163.com
QQ: 3037058772
Website: http://www.bjzxsf.net http://www.sfsaw.com
Add: No 201, Block A. Building 3. Yongjie Beilu
Yongfeng high-tech industrial base
Haidian District Beijing city

RoHS compliance Pb free REACH

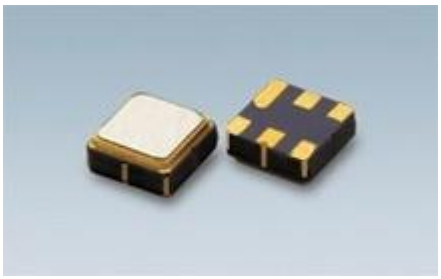
Part No.	:	R915
Pages	:	7
Date	:	2015/9/29
Revision	:	1.0

Prepared by:	
Checked by:	
Approved by:	

History Record

Date	Part No.	Version No.	Modify Content	Remark

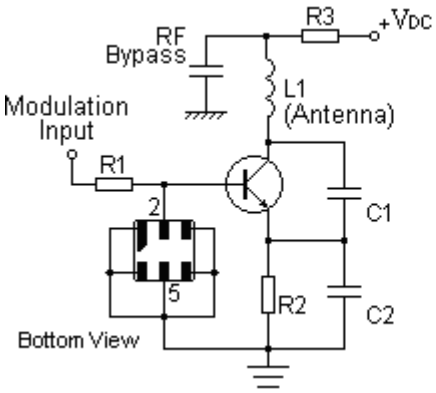
Features



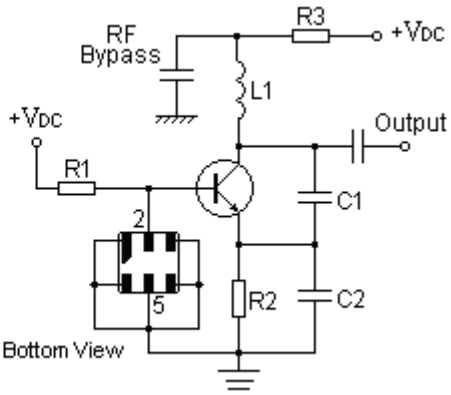
- 1-port Resonator
- Ceramic Package for **S**urface **M**ounted **T**echnology (**SMT**)
- **RoHS** compatible
- Package size 3.0x3.0x1.25mm^3
- Package Code DCC6C
- **E**lectrostatic **S**ensitive **D**evice(**ESD)**

Application

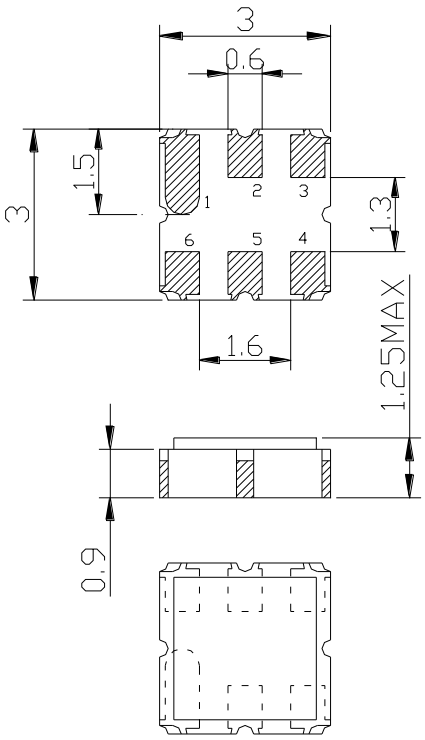
Typical Low-Power Transmitter Application



Typical Local Oscillator Application



Package Dimensions (DCC6C)



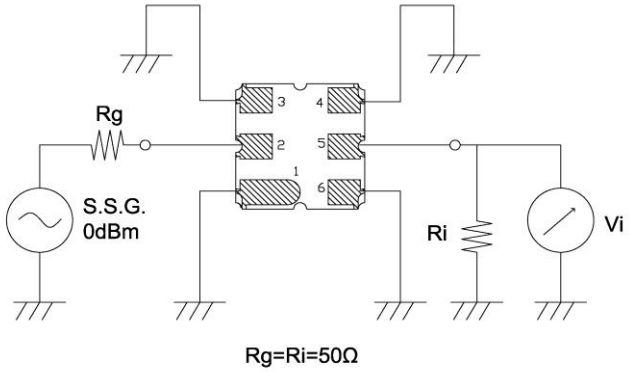
Pin Configuration

2	Input/Output
5	Input/Output
1,3,4,6	Case Ground

Marking

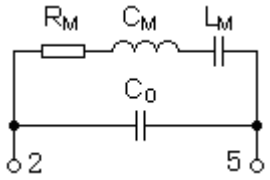
●	Pin 1
R	SAW Resonator
915	Part number

Test Circuit



Rg=Ri=50Ω

Equivalent LC Model



Performance

Maximum Rating

Item		Value	Unit
DC Voltage	V_{DC}	±30	V
Operation Temperature	T	-40 ~ +85	℃
Storage Temperature	T_{stg}	-40 ~ +85	℃
RF Power Dissipation	P	15	dBm

Electronic Characteristics

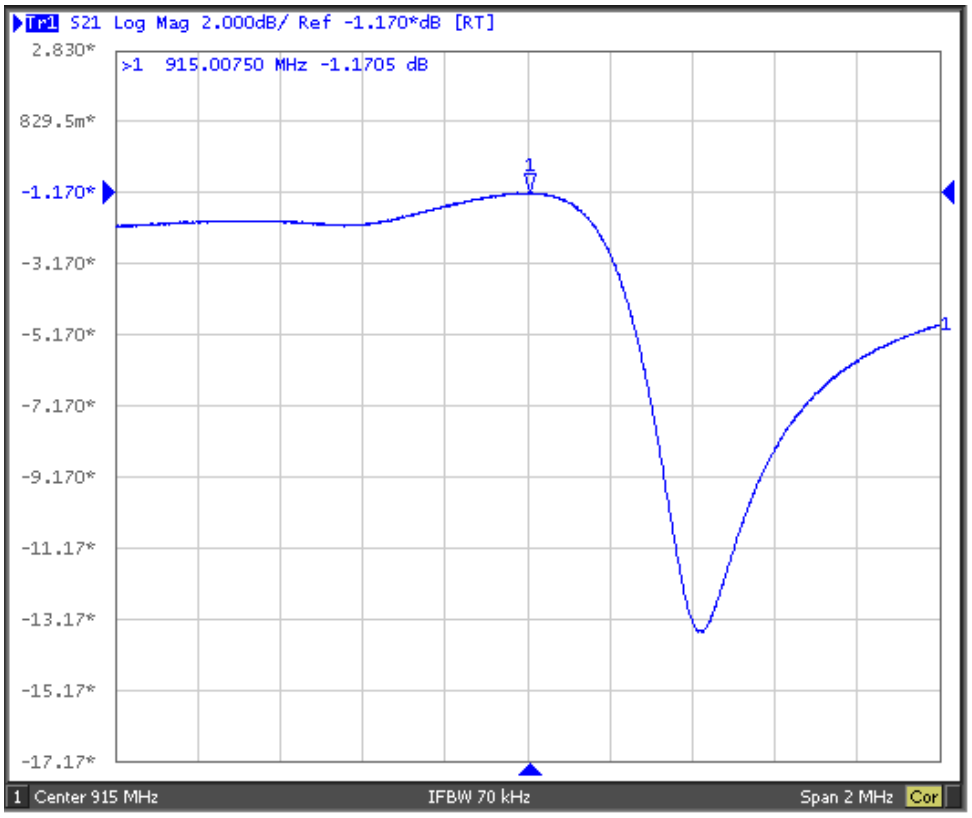
Test Temperature: 25℃±2℃

Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

Item			Minimum	Typical	Maximum	Unit
Center Frequency	Absolute Frequency	f_c		915.00		MHz
	Tolerance from 915.00MHz	$\triangle f_c$		±150		KHz
Insertion Loss(min)		IL		1.2	2.0	dB
Quality Factor	Unloaded Q	Q_U		15069		
	50Ω Loaded Q	Q_L		715		
Frequency Aging	Absolute Value during the First Year	$\|f_A\|$		≤10		ppm/yr
DC Insulation Resistance between Any Two Pins			1.0			MΩ
RF Equivalent RLC Model	Motional Resistance	R_M		4.9	10.0	Ω
	Motional Inductance	L_M		13.0		μH
	Motional Capacitance	C_M		2.54		fF
	Static Capacitance	C_0	2.55	2.85	3.15	pF

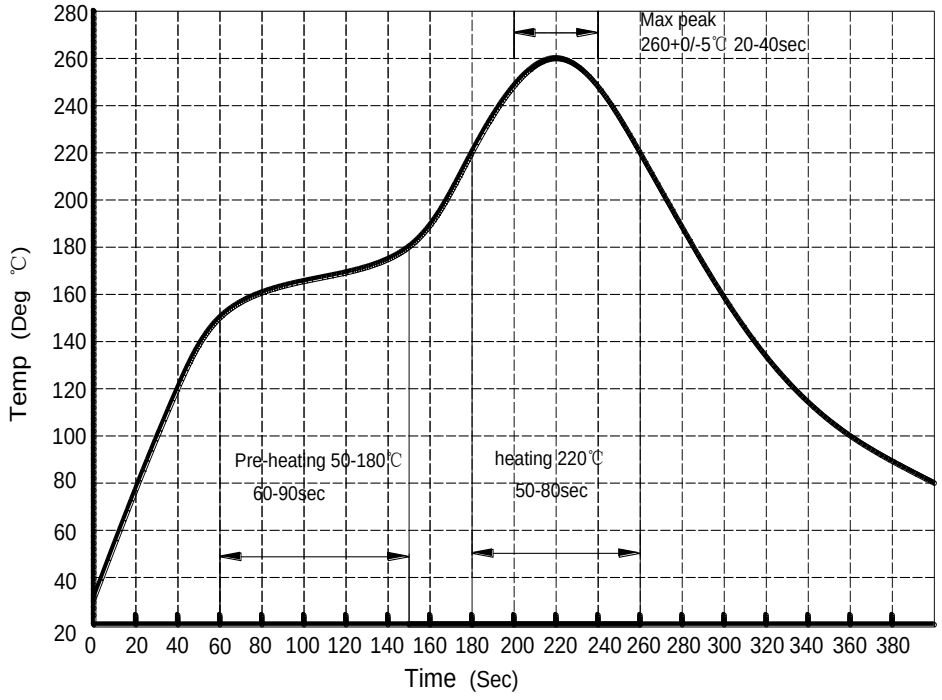
Frequency Response



Reliability（The SAW components shall remain electrical performance after tests）

No.	Test item	Test condition
1	Temperature Storage	(1) Temperature: 85℃±2℃ , Duration: 250h , Recovery time: 2h±0.5h (2) Temperature: –40℃±3℃ , Duration: 250h ,Recovery time: 2h±0.5h
2	Humidity Test	Conditions: 60℃±2℃ , 90~95% RH Duration: 250h
3	Thermal Shock	Heat cycle conditions: TA=-40℃±3℃, TB=85℃±2℃, t1=t2=30min, Switch time: ≤3min , Cycle time: 100 times , Recovery time : 2h±0.5h.
4	Vibration Fatigue	Frequency of vibration: 10~55Hz Amplitude:1.5mm Directions: X,Y and Z Duration: 2h
5	Drop Test	Cycle time: 10 times Height: 1.0m
6	Solder Ability Test	Temperature: 245℃±5℃ Duration: 3.0s--5.0s Depth: DIP--2/3 , SMD--1/5
7	Resistance to Soldering Heat	(1)Thickness of PCB:1mm , Solder condition: 260℃±5℃ , Duration: 10±1s (2)Temperature of Soldering Iron: 350℃±10℃ , Duration: 3~4s , Recovery time : 2 ± 0.5h

Recommended Reflow Soldering Diagram



Notes

1. As a result of the particularity of inner structure of SAW products, it easy to be breakdown by electrostatic, so we should pay attention to **ESD protect** in the test.
2. **Static voltage** between signal load and ground may cause deterioration and destruction of the component. Please avoid static voltage.
3. **Ultrasonic cleaning** may cause deterioration and destruction of the component. Please avoid ultrasonic cleaning.
4. Only leads of component may **be soldered**. Please avoid soldering another part of component.
5. There is a close relationship between the device's performance and **matching network**. The specifications of this device are based on the test circuit shown above. L and C values may change depending on board layout. Values shown are intended as a guide only.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Resonators ***category:***

Click to view products by Sf ***manufacturer:***

Other Similar products are found below :

B39431R820H210 CSAC2.00MGCM-TC ECS-HFR-40.00-B-TR CSTLS4M00G53Z-A0 ZTB455E ECS-CR2-16.00-A-TR ECS-HFR-20.00-B-TR ECS-CR2-20.00-A-TR RO3164E-3 ASR418S2-T CSTNE10M0G520000R0 CSTLS8M00G53093-A0 CSTNE12M0G52A000R0 CSTLS18M4X54-A0 CSTLS16M9X53Z-B0 CSTLS24M0X51-A0 CSTLS25M0X51-B0 CSTLS18M0X51-B0 CSTLS4M00G53093-A0 CSTLS18M4X53-A0 CSTNE16M0V510000R0 CSTLS30M0X53-B0 CSTLS33M8X53-B0 CSTLS16M9X53-A0 CSTLS6M40G56-B0 CSTLS6M25G56-A0 CSTNE14M7V510000R0 CSTLS18M4X53-B0 CSTLS33M0X51-B0 CSTLS5M50G56-B0 7B008000I01 7D038400I01 TAXM24M2ILDBET2T TAXM26M2IHDBET2T 146-32.768-12.5-20-20/A 3225-24.00-12-10-10/A 7B009843M01 CF4016M00009T8188042 S32400001B0730D1JB X252016MLB4SI Q24FA20H00389 CSTLS16M0X54-B0 CSTLS4M19G56-B0 9AC04194152080D2JB CST3.58MGW CSTCR4M91G55B-R0 CSTLS3M68G56-B0 S2100327072090 FC-12M32.768KHZ9PF20PPM ASR315S2