



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

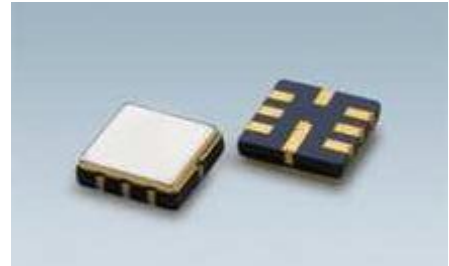


Part No.	:	SFR433D
Pages	:	7
Date	:	2013/03/21
Revision	:	1.0

Prepared by:	
Checked by:	
Approved by:	

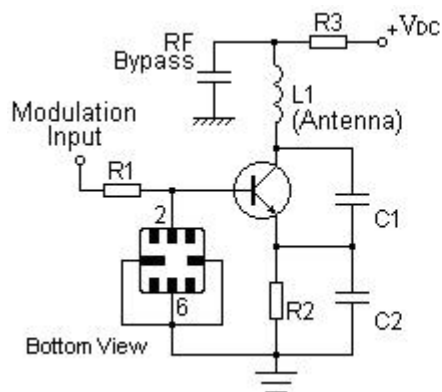
Features

- 1-port Resonator
- Ceramic Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 5.00x5.00x1.50mm³
- Package Code QCC8C
- **Electrostatic Sensitive Device(ESD)**

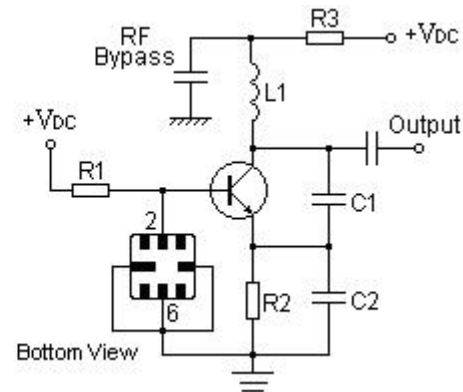


Application

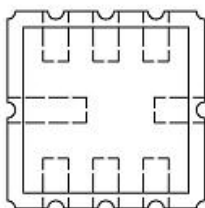
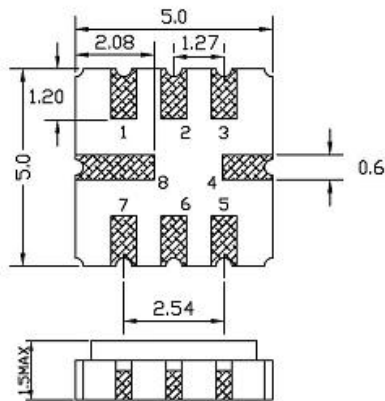
Typical Low-Power Transmitter Application



Typical Local Oscillator Application



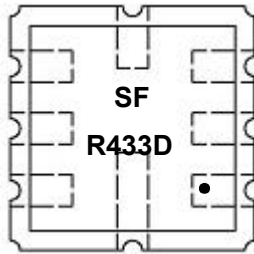
Package Dimensions (QCC8C)



Pin Configuration

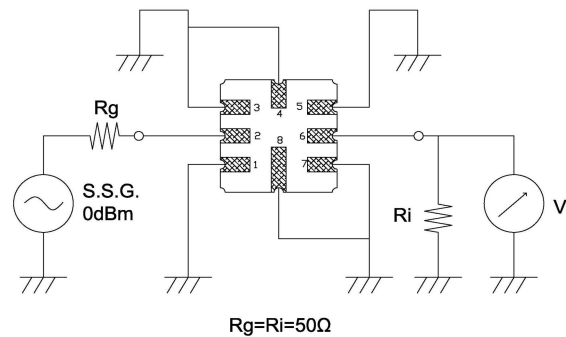
2	Input/ Output
6	Output/ Input
1,3,5,7	To be Grounded
4,8	Case Ground

Marking Description

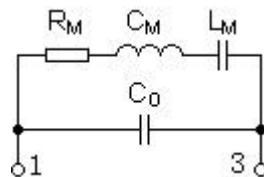


●	Pin 4
R	SAW Resonator
SFR433D	Part Number

Test Circuit



Equivalent LC Model



Performance

Maximum Rating

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

Electronic Characteristics

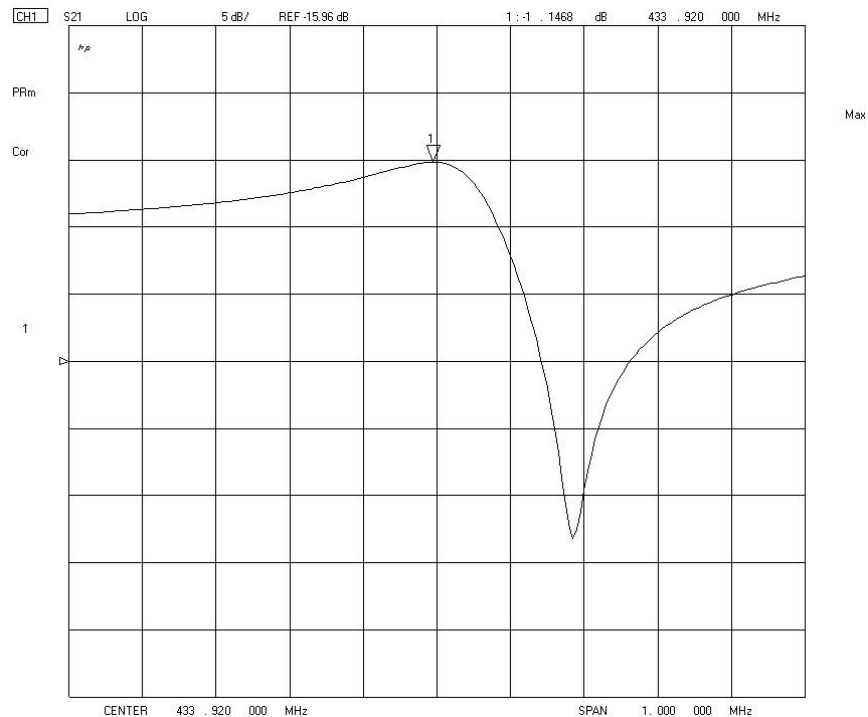
Test Temperature: $25^{\circ}\text{C}\pm 2^{\circ}\text{C}$

Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

Item			Minimum	Typical	Maximum	Unit
Center Frequency	Absolute Frequency	f_c		433.92		MHz
	Tolerance from 433.92MHz	Δf_c		± 75		KHz
Insertion Loss(min)		IL		1.2	1.7	dB
Quality Factor	Unloaded Q	Q_U		16090		
	50Ω Loaded Q	Q_L		1800		
Frequency Aging	Absolute Value during the First Year	$ f_A $		≤ 10		ppm/yr
DC Insulation Resistance between Any Two Pins			1.0			$M\Omega$
RF Equivalent RLC Model	Motional Resistance	R_M		13.0	22.0	Ω
	Motional Inductance	L_M		74.4		μH
	Motional Capacitance	C_M		1.81		fF
	Static Capacitance	C_0	2.3	2.6	2.9	pF

Frequency Response



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](#)