



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

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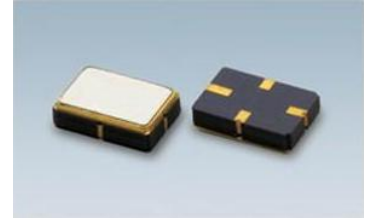


Part No.	:	SFR315H
Pages	:	7
Date	:	2013/03/21
Revision	:	1.0

Prepared by:	
Checked by:	
Approved by:	

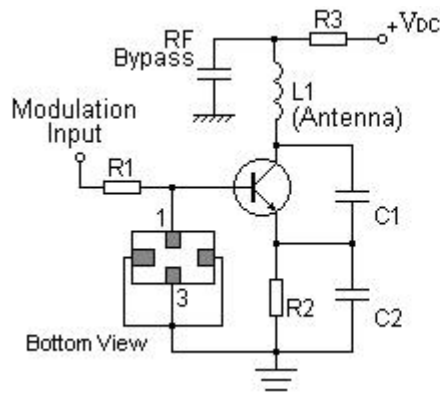
Features

- Ceramic Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 5.00x3.50x1.50mm³
- Package Code QCC4A

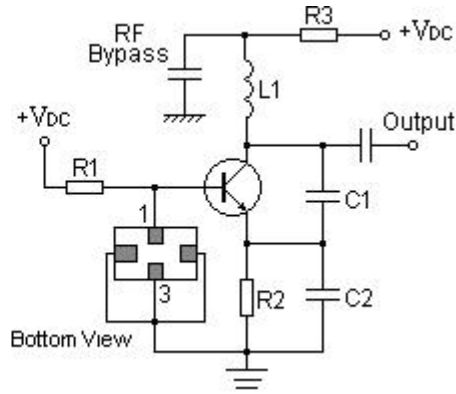


Application

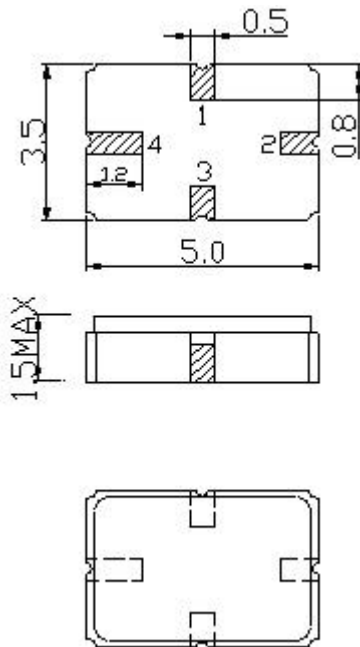
Typical Low-Power Transmitter Application



Typical Local Oscillator Application



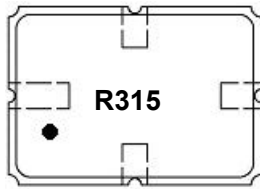
Package Dimensions (QCC4A)



Pin Configuration

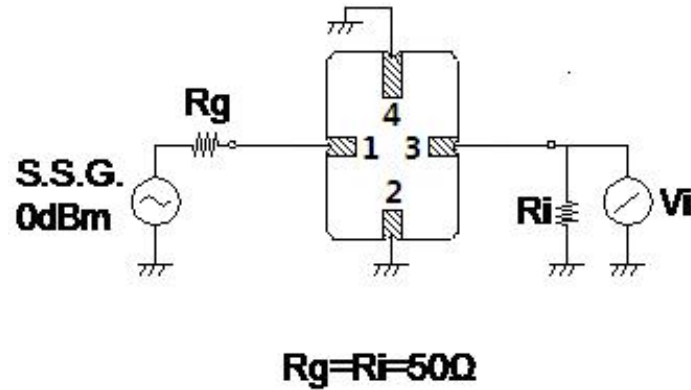
Pin No.	Description
1	Input/Output
3	Output/Input
2,4	Case Ground

Marking Description

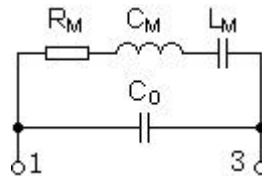


●	Pin 4
R	SAW Resonator
315	Part Number

Test Circuit



Equivalent LC Model



Performance

Maximum Rating

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

Electronic Characteristics

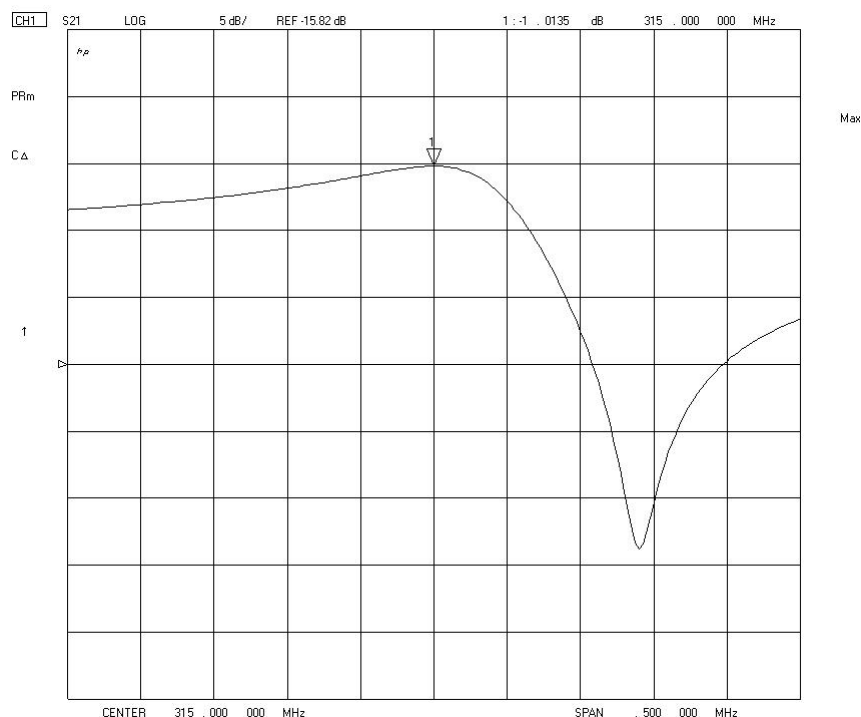
Test Temperature: 25°C±2°C

Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

Item			Minimum	Typical	Maximum	Unit
Center Frequency	Absolute Frequency	f_c		315.00		MHz
	Tolerance from 315.00MHz	Δf_c		±75		KHz
Insertion Loss(min)		IL		1.1	1.6	dB
Quality Factor	Unloaded Q	Q_U		14943		
	50Ω Loaded Q	Q_L		1565		
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		12.0	22.0	Ω
	Motional Inductance	L_M		88.4		μH
	Motional Capacitance	C_M		2.89		fF
	Static Capacitance	C_0	3.7	4.0	4.3	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.