



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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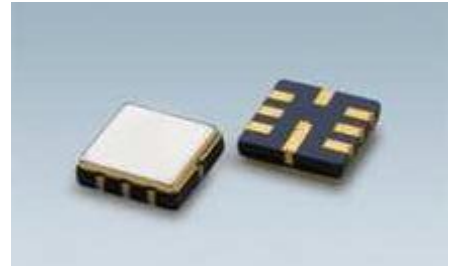


Part No.	:	SFR304D
Pages	:	7
Date	:	2015/11/17
Revision	:	1.0

Prepared by:	
Checked by:	
Approved by:	

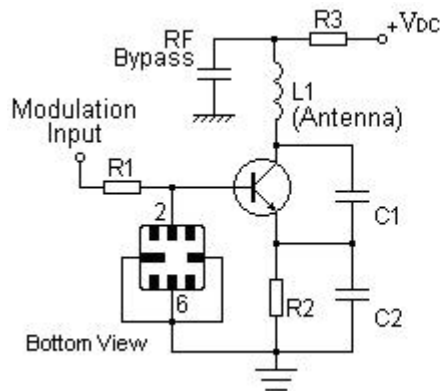
Features

- 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)

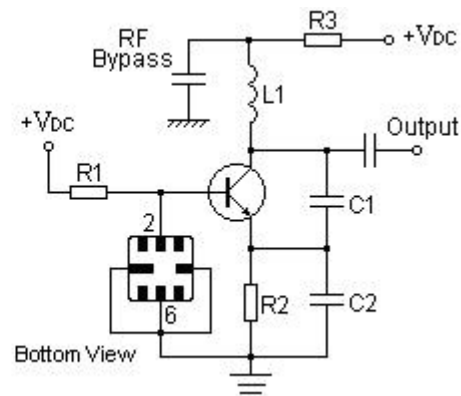


Application

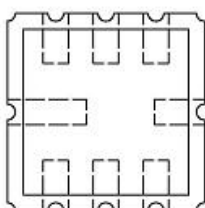
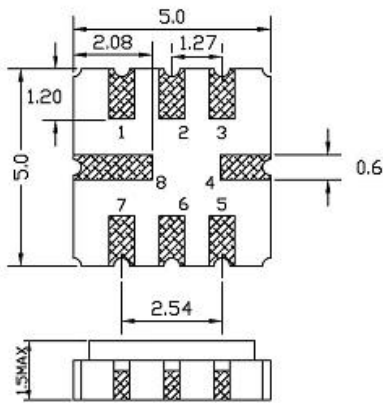
Typical Low-Power Transmitter Application



Typical Local Oscillator Application



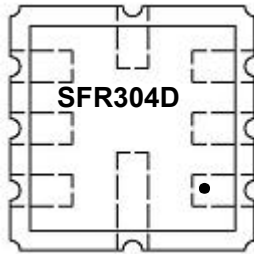
Package Dimensions (QCC8C)



Pin Configuration

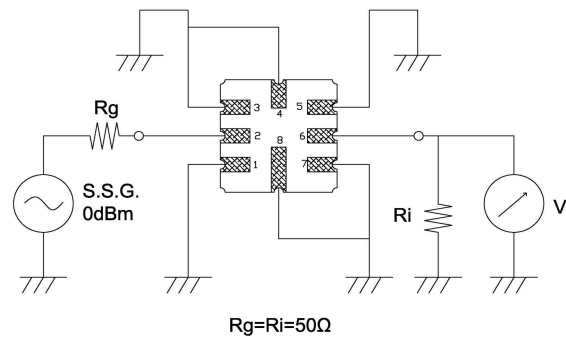
2	Input/ Output
6	Output/ Input
1,3,5,7	To be Grounded
4,8	Case Ground

Marking Description

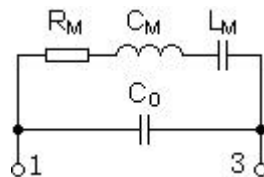


●	Pin 4
R	SAW Resonator
340.3	Part Number

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°C±2°C

Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

Item			Minimum	Typical	Maximum	Unit
Center Frequency	Absolute Frequency	f_c		304.30		MHz
	Tolerance from 304.30MHz	Δf_c		±75		KHz
Insertion Loss(min)		IL		1.1	2.0	dB
Quality Factor	Unloaded Q	Q_U		17496		
	50Ω Loaded Q	Q_L		1789		
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		11.3	15.0	Ω
	Motional Inductance	L_M		104.3		μH
	Motional Capacitance	C_M		2.74		fF
	Static Capacitance	C_0	3.62	3.92	4.22	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.

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