



APPROVAL SHEET

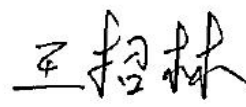
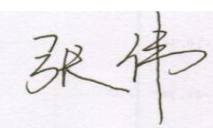

Approval Specification	Customer's Approval Certificate
TO:	Checked & Approved by:
Part No.:	Date:
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Part No.	:	SFR370K
Pages	:	7
Date	:	2015/4/16
Revision	:	1.0

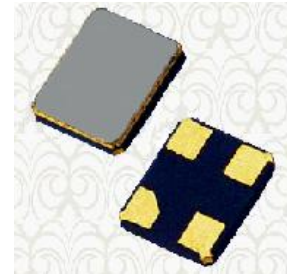
Prepared by:	
Checked by:	
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History Record

Date	Part No.	Version No.	Modify Content	Remark

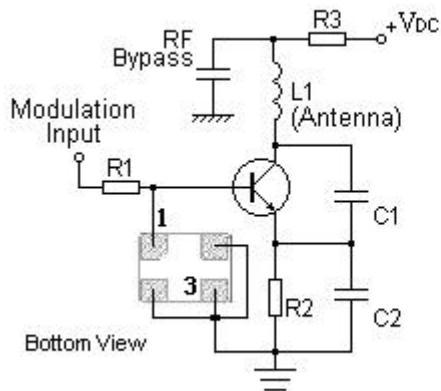
Features

- 1-port Resonator
- Ceramic Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 3.20x2.50x0.70mm³
- **Electrostatic Sensitive Device(ESD)**

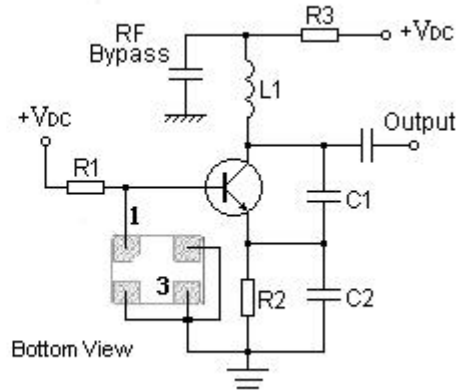


Application

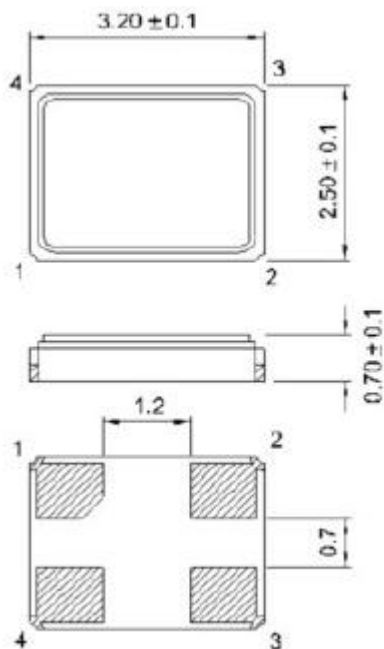
Typical Low-Power Transmitter Application



Typical Local Oscillator Application



Package Dimensions (DCC4C)



Pin Configuration

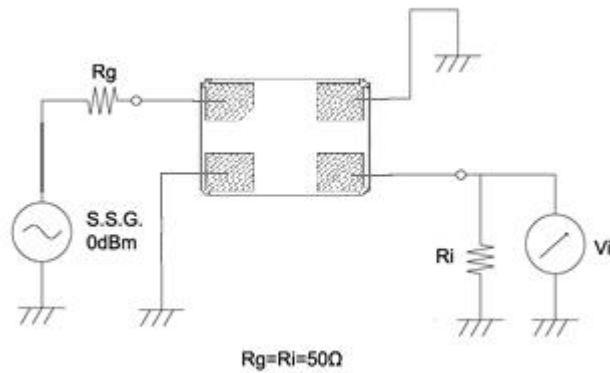
1	Input/ Output
3	Output/ Input
2,4	Ground

Marki

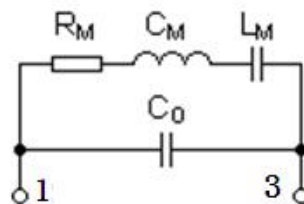


SF	Trademark
R	SAW Resonator
370K	Part number

Test Circuit



Equivalent LC Model



Performance

Maximum Rating

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

Electronic Characteristics

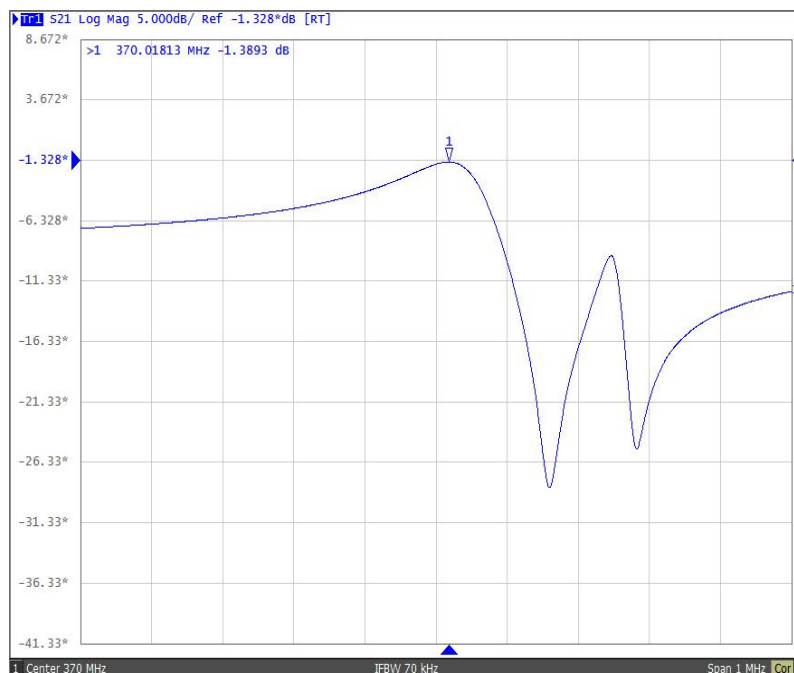
Test Temperature: 25°C±2°C

Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

Item		Minimum	Typical	Maximum	Unit
Center Frequency	Absolute Frequency	f_c	370.00		MHz
	Tolerance from 370.00MHz	Δf_c	±75		KHz
Insertion Loss(min)		IL	1.4	2.0	dB
Quality Factor	Unloaded Q	Q_U	23606		
	50Ω Loaded Q	Q_L	3173		
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	15.5	18.0	Ω
	Motional Inductance	L_M	157.8		μH
	Motional Capacitance	C_M	1.31		fF
	Static Capacitance	C_0	1.71	2.01	2.3

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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