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Part No.	:	SFR370K
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Date	Part No.	Version No.	Modify Content	Remark

Please read notes at the end of this document. -2 - <u>www.bjzxsf.net</u> <u>www.sfsaw.com</u> 2015/04/16

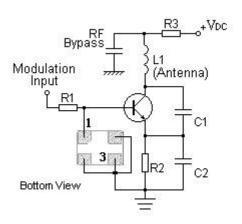
Features

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

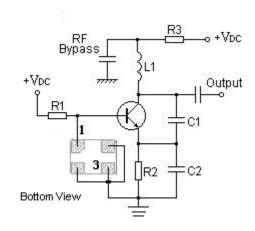


Application

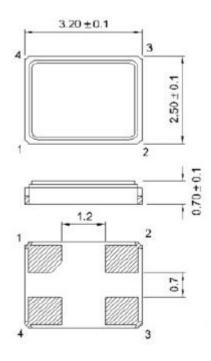
Typical Low-Power Transmitter Application



Typical Local Oscillator Application



Package Dimensions (DCC4C)



Pin Configuration

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

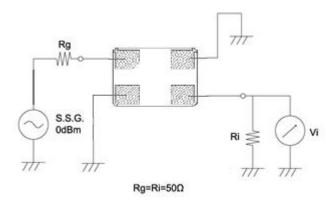
SAW Resonator SFR370K 370.00MHz

Marki

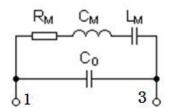


SF Trademark	
R	SAW Resonator
370K	Part number

Test Circuit



Equivalent LC Model



Performance

Maximum Rating

Item			Unit
DC Voltage	V _{DC}	±30	V
Operation Temperature	Т	-40 ~ +85	℃
Storage Temperature	T_{stg}	-40 ~ +85	°C
RF Power Dissipation	Р	15	dBm

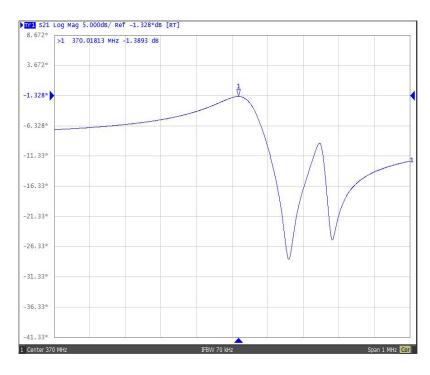
Electronic Characteristics

Test Temperature: 25°C±2°C

Terminating source impedance: 50Ω Terminating load impedance: 50Ω

	ltem		Minimum	Typical	Maximum	Unit
Center	Absolute Frequency	fc		370.00		MHz
Frequency	Tolerance from 370.00MHz	△fc		±75		KHz
Insertion Loss(r	nin)	IL		1.4	2.0	dB
Quality Factor	Unloaded Q	Qυ		23606		
Quality Factor	50Ω Loaded Q	Q_L		3173		
Frequency Aging Absolute Value during the First Year		f _A		≤10		ppm/yr
DC Insulation R	esistance between Any Two Pins		1.0			МΩ
	Motional Resistance	R _M		15.5	18.0	Ω
RF Equivalent RLC Model	Motional Inductance	L _M		157.8		μН
	Motional Capacitance	См		1.31		fF
	Static Capacitance	C ₀	1.71	2.01	2.3	pF

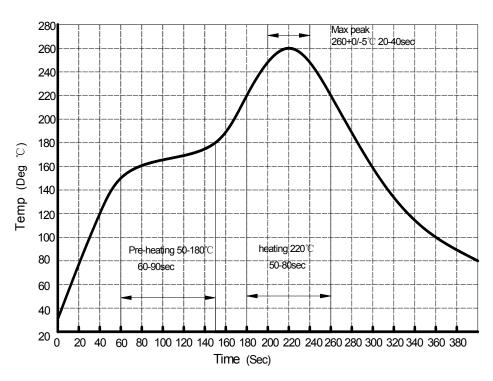
Frequency Response



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

No.	Test item	Test condition
1	Temperature Storage	(1) Temperature: 85°C±2°C , Duration: 250h , Recovery time: 2h±0.5h (2) Temperature: -40°C±3°C , Duration: 250h ,Recovery time: 2h±0.5h
2	Humidity Test	Conditions: 60°C±2°C , 90~95% RH
3	Thermal Shock	Heat cycle conditions: TA=-40 °C±3 °C, TB=85 °C±2 °C, 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°C±5°C Duration: 3.0s5.0s Depth: DIP2/3 , SMD1/5
7	Resistance to Soldering Heat	(1)Thickness of PCB:1mm , Solder condition: 260°C±5°C , Duration: 10±1s (2)Temperature of Soldering Iron: 350°C±10°C , Duration: 3~4s , Recovery time : 2 ± 0.5h

Recommended Reflow Soldering Diagram



SAW Resonator SFR370K 370.00MHz

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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