

APPROVAL SHEET

Approval Specification	Customer's Approval Certificate	
то:	Checked & Approved by:	
Part No.:	Date:	
Customer's Part No.:	Please return this copy as a certification of your approval	

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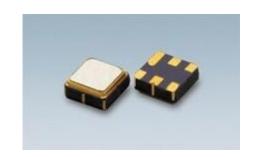
Shajing Street, Baoan District, Shenzhen



Part No.	:	SFR418F
Pages	:	5
Date	:	2016/8/1
Revision	:	2.0

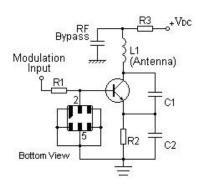
Features

- 1-port Resonator
- Ceramic Package for Surface Mounted Technology (SMT)
- RoHS compatible
- Package size 3.80x3.80x1.50mm³
- Package Code DCC6
- Electrostatic Sensitive Device(ESD)

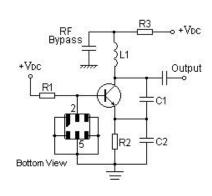


Application

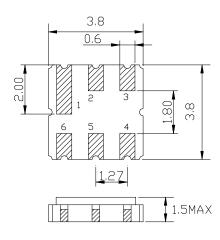
Typical Low-Power Transmitter Application



Typical Local Oscillator Application

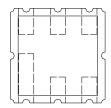


Package Dimensions (DCC6)



Pin Configuration

2	Input/Output		
5	Input/Output		
1,3,4,6	Case Ground		

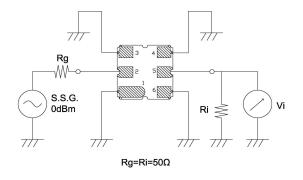


Marking

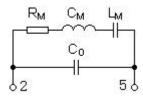


SF	Trademark
R	SAW Resonator
418F	Part number
•	Pin 1

Test Circuit



Equivalent LC Model



Performance

Maximum Rating

ltem		Value	Unit
DC Voltage	V _{DC}	±30	V
Operation Temperature	Т	-40 ~ +85	℃
Storage Temperature	T _{stg}	-40 ~ +85	℃
RF Power Dissipation	Р	25	dBm

Electronic Characteristics

Test Temperature: 25°C±2°C

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

Terminating load impedance. 3012						
	ltem		Minlmum	Typical	Maximum	Unit
Center	Absolute Frequency	fc		418.00		MHz
Frequency Tolerance from 418.00MHz		△fc		±75		KHz
Insertion Loss(min)		IL		1.6	2.0	dB
Quality Factor	Unloaded Q	Qυ		13769		
Quality Factor	50Ω Loaded Q	Q_L		2026		

SAW Resonator	SFR418F	CF:418.00MHz
SAW KESUHALUI	31114101	C1 .4 10.00W11Z

Frequency Aging	Absolute Value during the First Year	f _A		≤10		ppm/yr
DC Insulation Resistance between Any Two Pins			1.0			ΜΩ
	Motional Resistance	R _M		17.2	25.0	Ω
RF Equivalent	Motional Inductance	L _M		90.5	120	μН
RLC Model	Motional Capacitance	См		1.6		fF
	Static Capacitance	C ₀	2.2	2.5	2.8	pF

Frequency Response



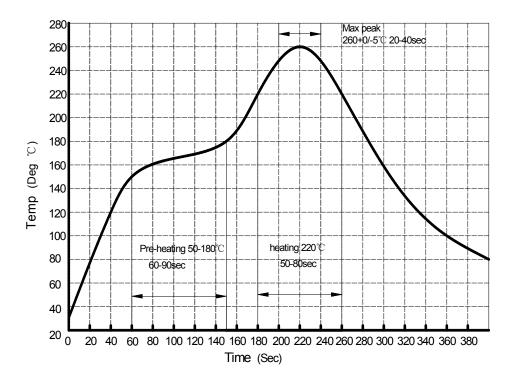
Reliability (The SAW components shall remain electrical performance after tests)

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 Duration: 250h
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

SAW Resonator	SFR418F	CF:418.00MHz

		Temperature: 245°C±5°C
6	Solder Ability Test	Depth: DIP2/3 , SMD1/5
		(1)Thickness of PCB:1mm , Solder condition: 260°C±5°C , Duration: 10±1s
7	Resistance to Soldering Heat	(2)Temperature of Soldering Iron: 350°C±10°C,Duration: 3~4s,
		Recovery time: 2 ± 0.5h

Recommended Reflow Soldering Diagram



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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