

APPROVAL SHEET

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

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Part No.	:	SF0214
Pages	:	6
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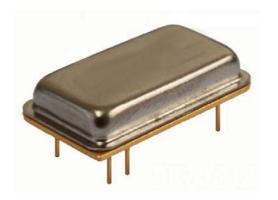
Prepared by:	梁浩
Checked by:	gla g
Approved by:	马拉上

SF0214

2.00MHz Bandwidth

Application

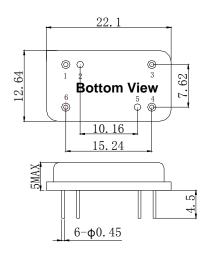
- High-SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Passband 2 MHz



Features

- RoHS compatible
- Package size 22.1x12.64x5.00mm³
- Package Code DIP2212
- Electrostatic Sensitive Device(ESD)

Package Dimensions (Unit: mm)





Test Circuit(Bottom View)

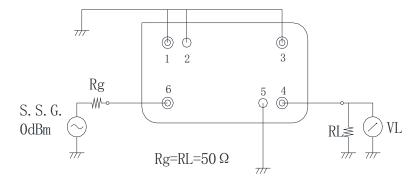
Pin Configuration

Pin No.	Description
6	Input
4	Output
1,2,3,5	Ground

Marking Description

S	Trademark	
F	SAW Filter	
0214	Part Number	
•	Pin 1	
YYWW	Year Code & Week Code	

*Fig: If the products produced in 06th week of 2012, The year code & week code is 1206.



Please read notes at the end of this document.

Performance

Maximum Rating

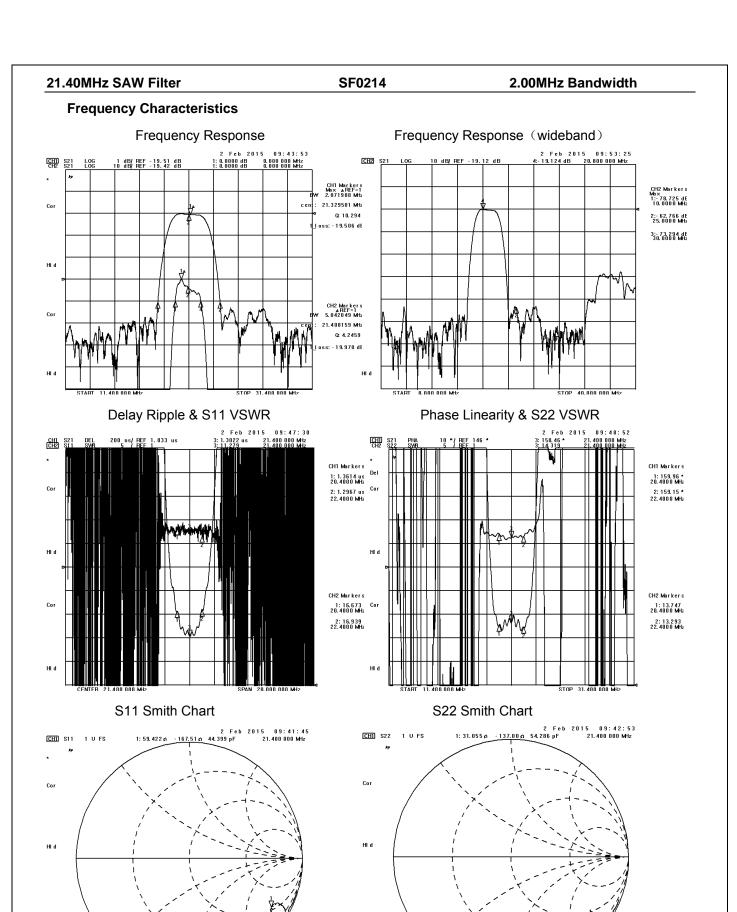
Item		Value	Unit
DC Voltage	V _{DC}	3	V
Operation Temperature	Т	-40 ~ +85	$^{\circ}$
Storage Temperature	T _{stg}	-55 ~ +125	$^{\circ}$
RF Power Dissipation	Р	10	dBm

Electronic Characteristics

Test Temperature: $25^{\circ}C \pm 2^{\circ}C$

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

Item		Minimum	Typical	Maximum	Unit
Center Frequency	fc		21.4		MHz
Insertion Loss(min)	IL		19.6	22.0	dB
Amplitude Ripple	Δa		0.7	1.0	dB
1 dB Bandwidth	BW _{1dB}	2.00	2.07		MHz
40 dB Bandwidth	BW _{40dB}		5.1	7.8	MHz
Absolute Attenuation		35.0	43.0		dB

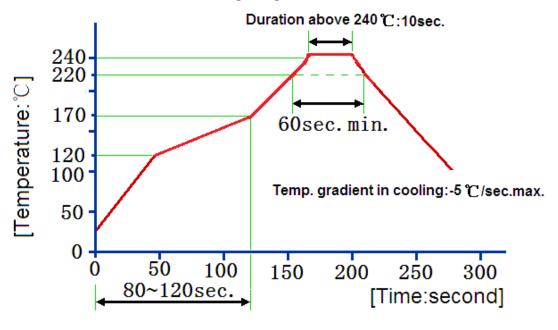


21.40MHz SAW Filter

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

No.	Test item	Test condition		
4	Temperature	(1) Temperature: 85℃±2℃ , Duration: 250h , Recovery time: 2h±0.5h		
1	Storage	(2) Temperature: –55℃±3℃, Duration: 250h, Recovery time: 2h±0.5h		
2	Humidity Test	Conditions: 60℃±2℃ , 90~95% RH		
3	Thermal Shock	Heat cycle conditions: TA=-55℃±3℃, TB=85℃±2℃, t1=t2=30min, Switch		
3	THEITIAI SHOCK	time: ≤3min, Cycle time: 100 times, Recovery time: 2h±0.5h.		
4	Vibration Fatigue	Frequency of vibration: 10~55Hz Amplitude:1.5mm		
	4 Vibration Fatigue	Directions: X,Y and Z Duration: 2h		
5	Drop Test	Cycle time: 10 times Height: 1.0m		
		Temperature: 245 ℃±5 ℃ Duration: 3.0s5.0s		
6	Solder Ability Test	Depth: DIP2/3 , SMD1/5		
		(1)Thickness of PCB:1mm , Solder condition: 260 ℃±5 ℃ , Duration: 10±1s		
7	Resistance to Soldering Heat	(2)Temperature of Soldering Iron: 350℃±10℃, Duration: 3~4s,		
		Recovery time: 2 ± 0.5h		

Recommended Reflow Soldering Diagram



Reflow cycles:3 cycles max.

21.40MHz SAW Filter SF0214 2.00MHz Bandwidth

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.