

SPEC NO.: RFS-613M

Specification

TO:STE1108 Model Name: SAW FILTER **PART NO: SSF70N02D2212** CUSTOMER PART NO.:

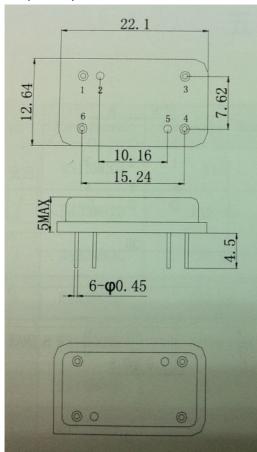
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Strong Electronics&Technology Limited

1. Package Dimension

(D2212)



1.2 Marking



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

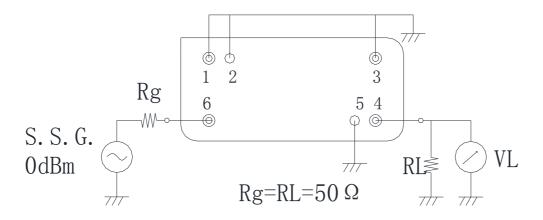
Marking Description

s	Trademark	
SF	SAW Filter	
70N02	Part Number	
YYMM	Year Code & Month Code	
XXXX	Serial No.	

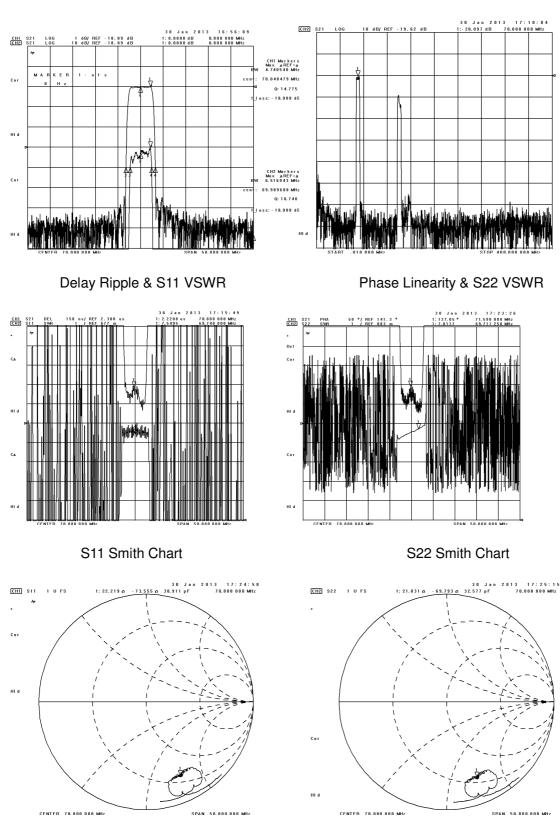
2. Performance

Item		Minimum	Typical	Maximum	Unit
Center Frequency	fc	69.9	70.0	70.1	MHz
Insertion Loss(min)	IL		18.5	20.0	dB
Amplitude Ripple (p-p) 67.80-72.20MHz	∆۵		0.7	1.0	dB
1 dB Bandwidth	BW1dB	4.5	4.7		MHz
3 dB Bandwidth	BW3dB	5.0	5.1		MHz
40 dB Bandwidth	BW40dB		6.5	7.0	MHz
Group Delay Ripple 67.80-72.20MHz	GDR		200.0	250.0	ns
Absolute Delay 70.00MHz			2.3	3.0	us
Absolute Attenuation	a				
25.00-65.00 MHz		50.0	57.0		dB
76.00-130.00MHz		50.0	57.0		dB
160.00-400.00 MHz		50.0	57.0		dB

3.Test Circuit



4. Frequency Characteristics



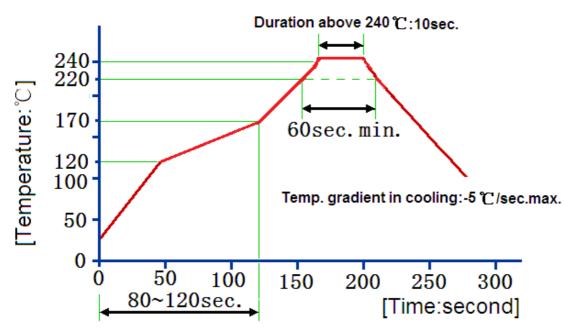
Frequency Response

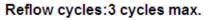
Frequency Response (wideband)

No.	Test item	Test condition		
1	Temperature Storage	 (1) Temperature: 85°C±2°C, Duration: 250h, Recovery time: 2h±0.5h (2) Temperature: -55°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=-55°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		
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: $260^{\circ}C\pm5^{\circ}C$, Duration: $10\pm1s$ (2)Temperature of Soldering Iron: $350^{\circ}C\pm10^{\circ}C$, Duration: $3\sim4s$,		

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

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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