



SPEC NO.: RFS-605M

Specification

TO:STE1108

Model Name: SAW FILTER **PART NO: SSF70N01D3512** CUSTOMER PART NO.:

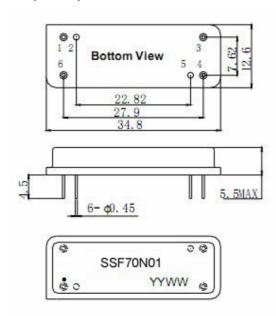
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1. Package Dimension

(D3512)



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

Marking Description

S	Trademark
SF	SAW Filter
70N01	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.

2. Performance

Maximum Rating

ltem		Value	Unit
DC Voltage	Voc	3	V
Operation Temperature	Т	-40 ~ +85	°C
Storage Temperature	T _{stg}	-55 ~ +125	°C
RF Power Dissipation	Р	10	dBm

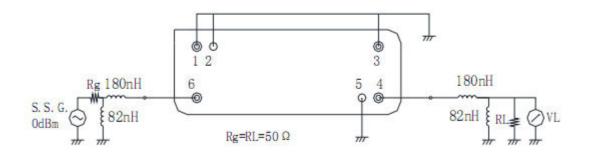
Electronic Characteristics

Test Temperature: 25°C ±2°C
Terminating source impedance: 50Ω
Terminating load impedance: 50Ω

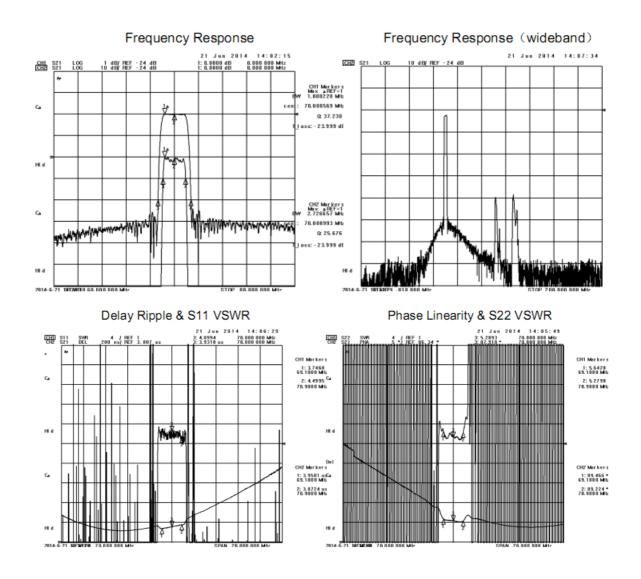
ltem	Minimum	Typical	Maximum	Unit	
Center Frequency	fc	69.95	70.00	70.05	MHz
Insertion Loss(min)	IL		24.0	28.0	dB
Amplitude Ripple (p-p)	Δα		0.3	1.0	dB
1 dB Bandwidth	BW _{1dB}	1.8	1.88		MHz
40 dB Bandwidth	BW40dB		2.7	3.0	MHz
Absolute Attenuation	a				
DC-68.00MHz		45.0	48.0		dB
72.00-100.00MHz		45.0	48.0		dB



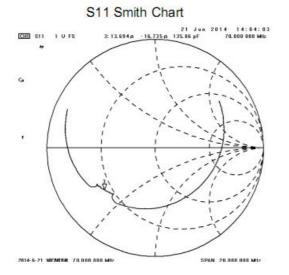
3.Test Circuit

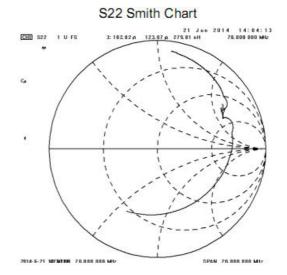


4. Frequency Characteristics







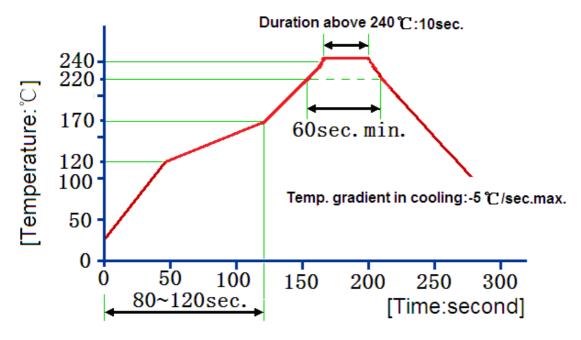


Reliability (The SAW components shall remain electrical performance after tests)

No.	Test item	Test condition		
1	Temperature Storage	(1) Temperature: 85°C±2°C, Duration: 250h, Recovery time: 2h±0.5h (2) Temperature: -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°C±5°C , Duration: 10±1s (2)Temperature of Soldering Iron: 350°C±10°C , Duration: 3~4s ,		



Recommended Reflow Soldering Diagram



Reflow cycles:3 cycles max.

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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