



SPEC NO.: RFS-005M

## Specification

TO:STE

Model Name: SAW FILTER

**PART NO: SSF907.5N01S2520**

CUSTOMER PART NO.:

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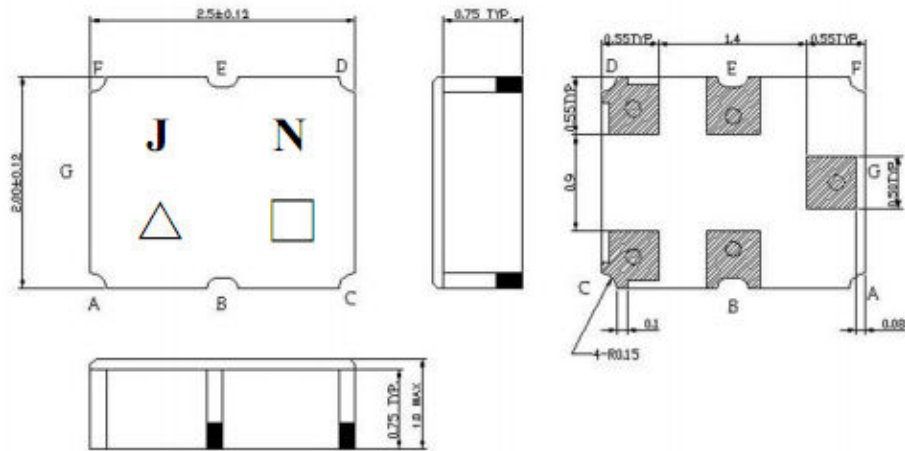
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### 1. Package Dimension



#### Pin configuration

- G : Unbalance input
- C,D : Balance output
- B,E : Ground
- $\triangle$  : Year code
- $\square$  : Date code
- Unit : mm

## 2. Performance

### A. MAXIMUM RATING:

1. Operating Temperature: -20°C ~ +75°C
2. Storage Temperature: -40°C ~ +85°C

RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS :

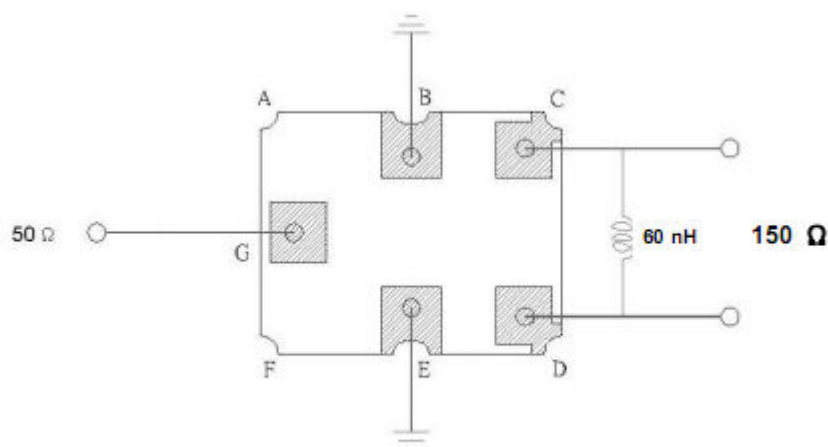
Singled to Balanced operation

Terminating source impedance :  $Z_s = 50 \Omega$

Terminating load impedance :  $Z_L = 150 \Omega // 60 \text{ nH}$

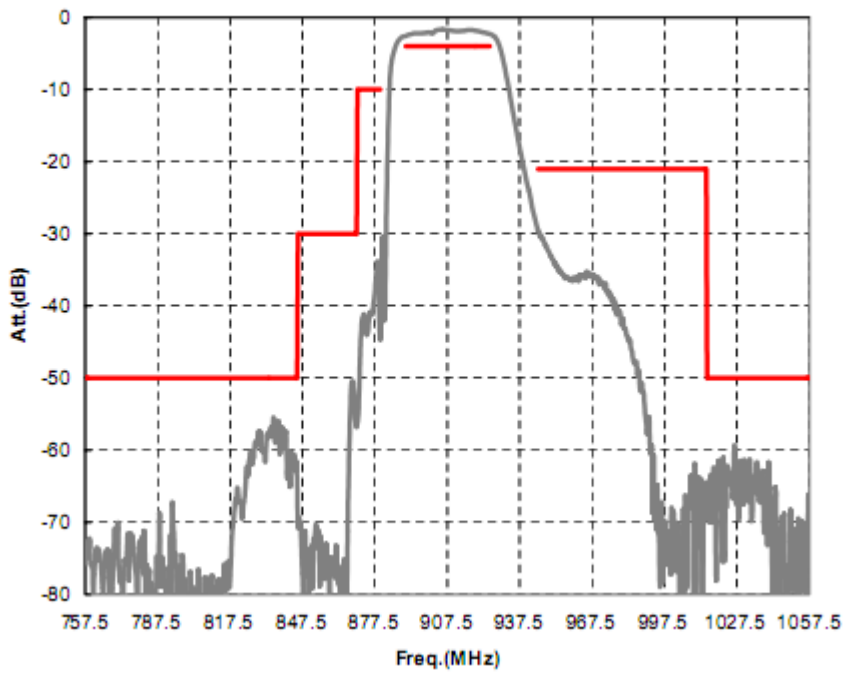
Item	Value			Note
	Min.	Typ.	Max.	
<b>Center frequency</b> $F_c$ MHz	-	907.5	-	-
<b>Insertion loss</b> ( 890~925 MHz) I.L. (dB)	-	2.6	4.0	-
<b>Ripple</b> ( 890~925 MHz) (dB)	-	1.0	2.4	-
<b>Input VSWR</b> ( 890~925 MHz)	-	1.6	2.5	-
<b>Output VSWR</b> ( 890~925 MHz)	-	1.8	2.5	-
<b>Attenuation:</b> ( Reference level from 0 dB)				
0 ~ 845 MHz (dB)	50	56	-	-
845 ~ 870 MHz (dB)	30	55	-	-
870 ~ 880 MHz (dB)	10	30	-	-
945 ~ 1015 MHz (dB)	21	29	-	-
1015 ~ 6000 MHz (dB)	50	57	-	-
<b>Symmetry in band</b> (referenced to the matched operating condition)				
<b>Output amplitude balance</b> ( $ S_{31}/S_{21} $ ) ( 890~925 MHz) (dB)	-1.3	0	1.3	
<b>Output phase balance</b> ( $\Phi(S_{31})-\Phi(S_{21})+180^\circ$ ) ( 890~925 MHz) degree	-10	0	10	

## 3. Test Circuit

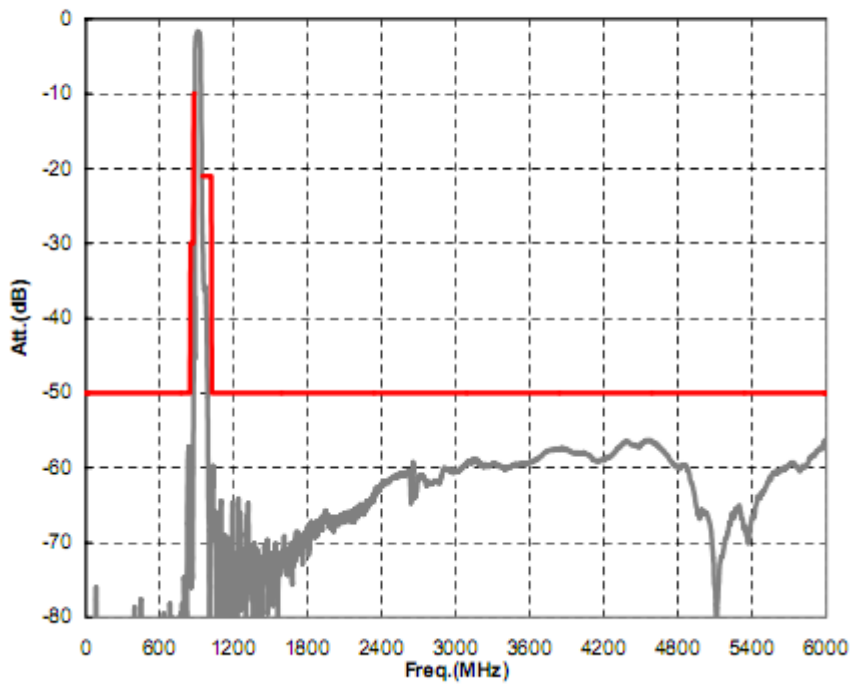


4. Frequency Characteristics

1. Transfer function (25 °C)

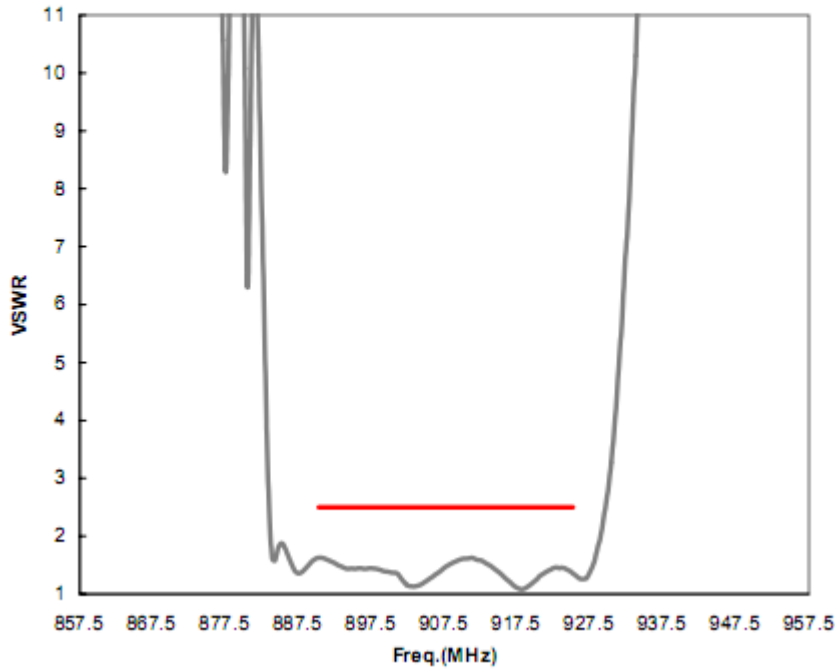


(wideband)

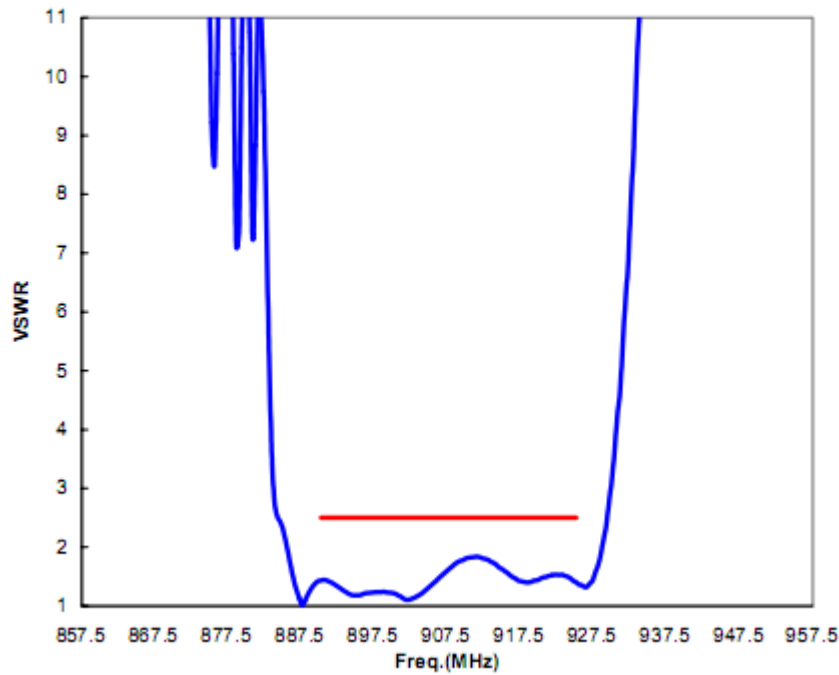


2. VSWR (25 °C)

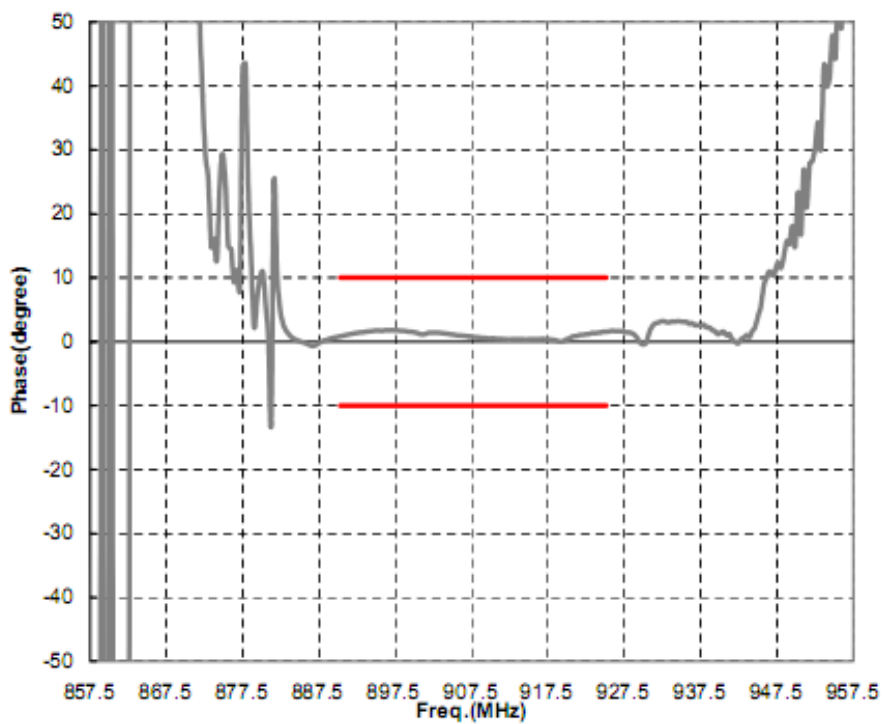
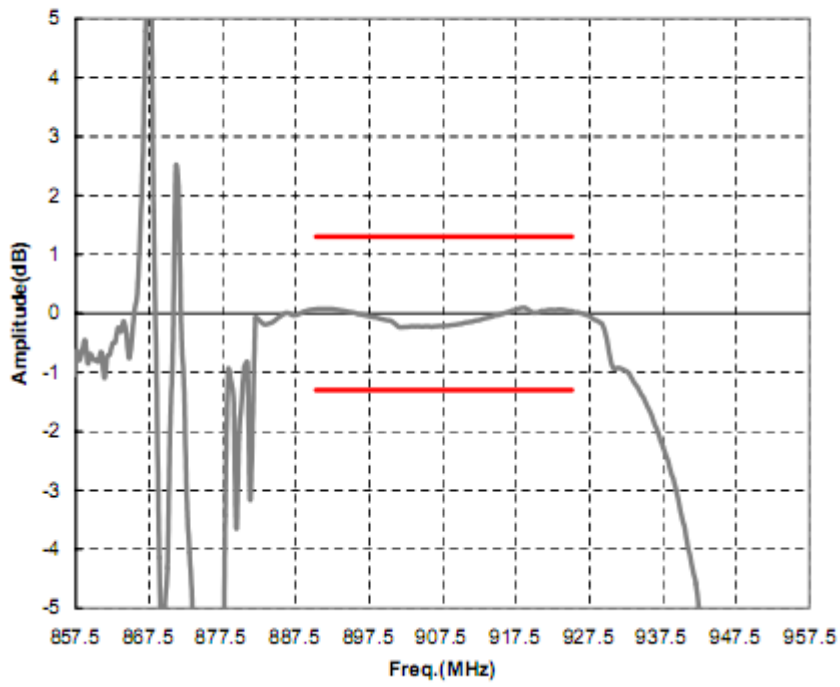
**Unbalance Input**



**Balance Output**



3. Symmetry in band :



**G. Reflow Profile:**

1. Preheating shall be fixed at 140 ~ 160 °C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150 °C shall be 30 seconds min.
3. Heating shall be fixed at 200 °C for 50 ~ 60 seconds and at 230±10 °C peak.

