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Approval Sheet For Product Specification

Issued Date: Jan, 20, 2004

Product Name: SAW Filter 907.5 MHz for Mobile Communication

TST Parts No.: TA0329A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 2,20,2004



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SAW Filter 907.5 MHz for Mobile Communication

MODEL NO.: TA0329A

REV. NO.:1

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 :

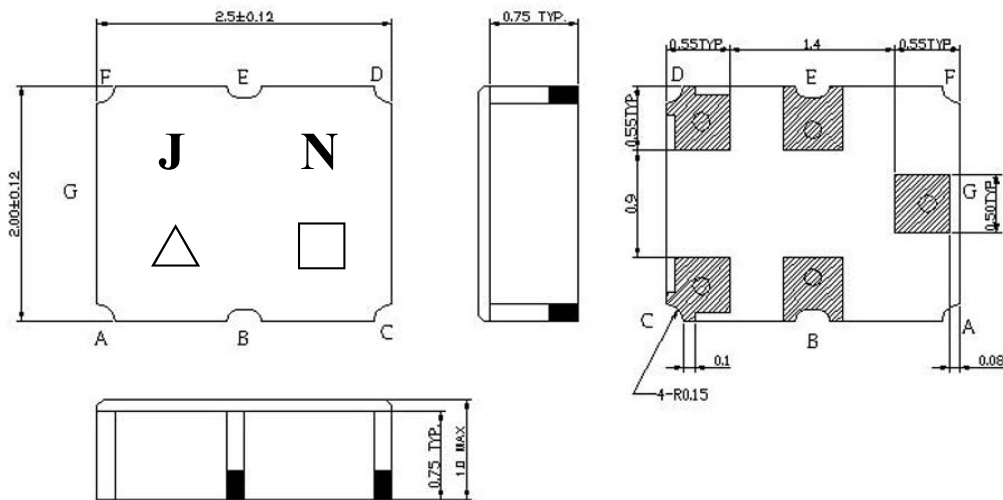
Singled to Balanced operation

Terminating source impedance : $Z_s = 50 \Omega$

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

Item	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	907.5	-	-
Insertion loss(890~925 MHz) I.L. (dB)	-	2.6	4.0	-
Ripple (890~925 MHz) (dB)	-	1.0	2.4	-
Input VSWR (890~925 MHz)	-	1.6	2.5	-
Output VSWR (890~925 MHz)	-	1.8	2.5	-
Attenuation: (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	-	-
Symmetry in band (referenced to the matched operating condition)				
Output amplitude balance ($ S_{31}/S_{21} $) (890~925 MHz) (dB)	-1.3	0	1.3	-
Output phase balance ($\Phi(S_{31})-\Phi(S_{21})+180^\circ$) (890~925 MHz) degree	-10	0	10	-

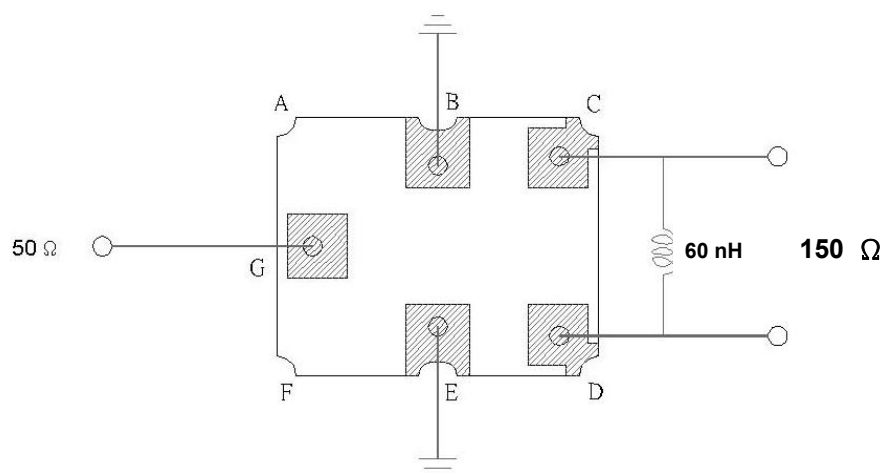
C. OUTLINE DRAWING:



Pin configuration

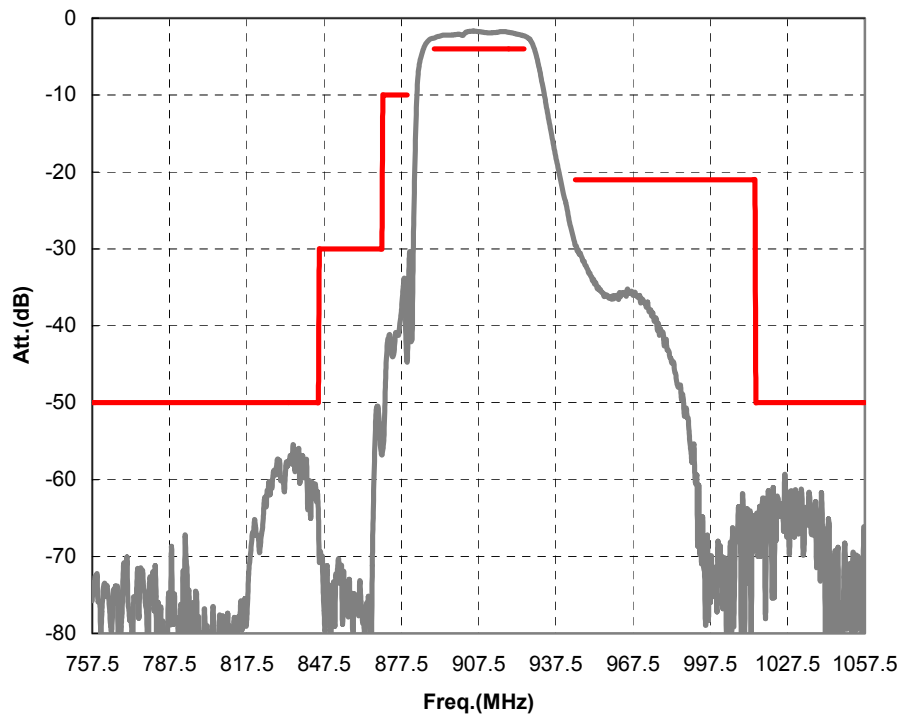
G : Unbalance input
C,D : Balance output
B,E : Ground
 $\triangle$: Year code
 $\square$: Date code
Unit : mm

D. MEASUREMENT CIRCUIT:

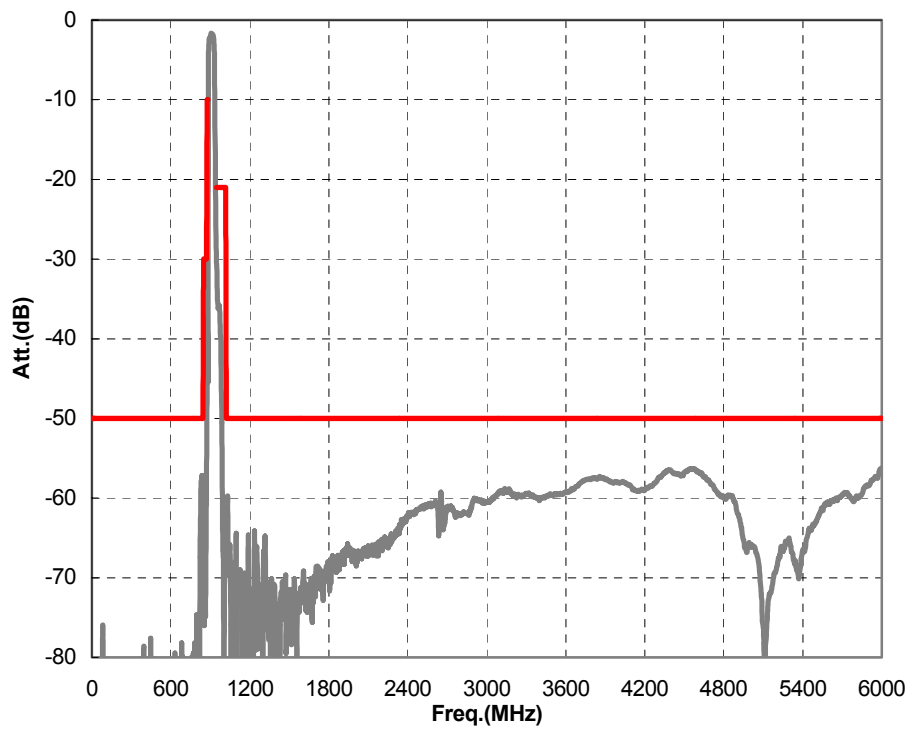


E. FREQUENCY CHARACTERISTICS:

1. Transfer function (25 °C)

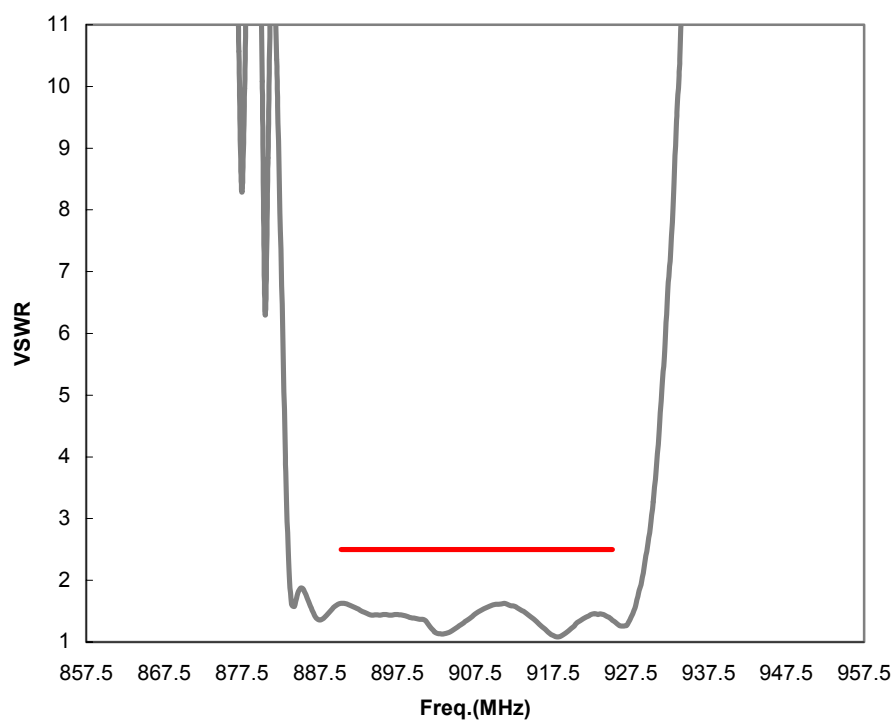


(wideband)

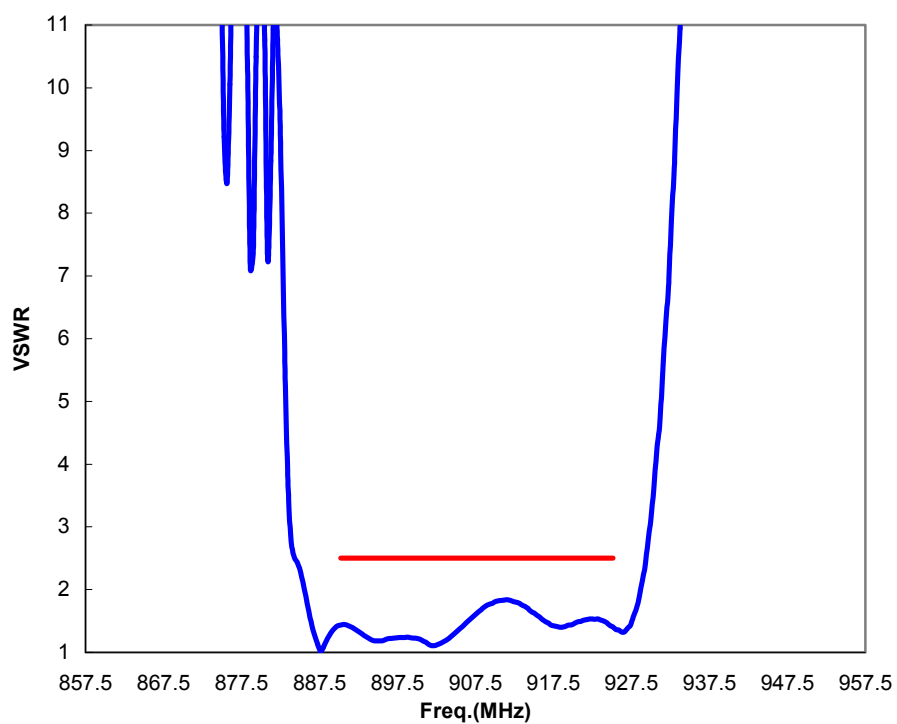


2. VSWR (25 °C)

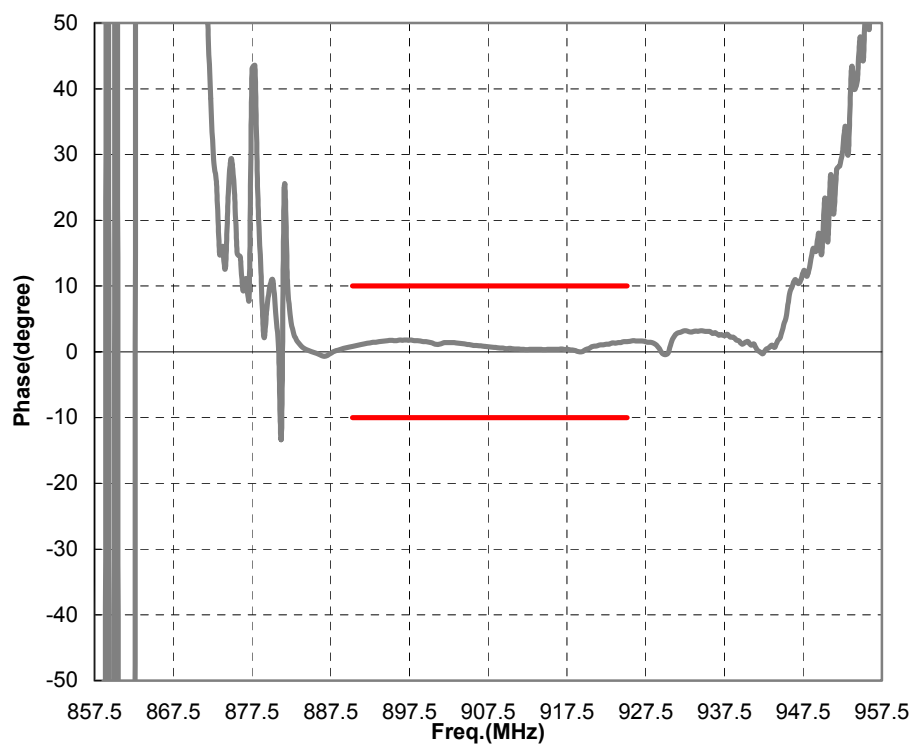
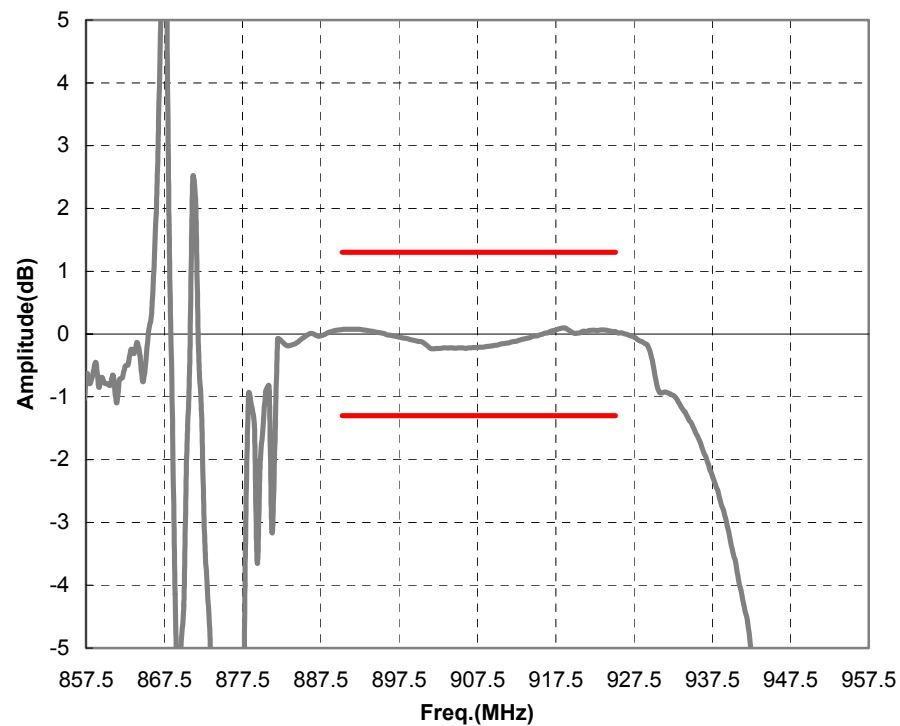
Unbalance Input



Balance Output



3. Symmetry in band :



1. REEL DIMENSION

Technical drawing of a mechanical part, likely a bracket or plate, showing a top view and a cross-section labeled "Section A-A".

Top View Dimensions:

- Overall width: 8.0 ± 0.3
- Overall height: 3.5 ± 0.05
- Distance from left edge to center of first hole: 2.0 ± 0.05
- Distance between centers of adjacent holes: 4
- Distance from center of last hole to right edge: 2.0 ± 0.05
- Distance from left edge to center of first slot: 2.25
- Distance between centers of adjacent slots: 4
- Distance from center of last slot to right edge: 2.25
- Radius of outer corners: $R0.5 \pm 0.1 / -0.0$
- Radius of inner corners: $R0.5 \text{ TYP.}$
- Height of the plate: 1.75

Section A-A Dimensions:

- Thickness of the plate: 0.3 ± 0.05
- Width of the base: 1.2
- Radius of the base corner: $R0.3 \text{ MAX}$

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.

