



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 1220MHz SMD 3.0×3.0mm

TST Parts No.:TA0304A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Elvis Chiu

Approval by:_____Francis Chen

Date:_____2004/03/03



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SAW Filter 1220 MHz

MODEL NO.: TA0304A

REV. No.:2

A. MAXIMUM RATING:

1. Operating Temperature: -40°C to +85°C
2. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

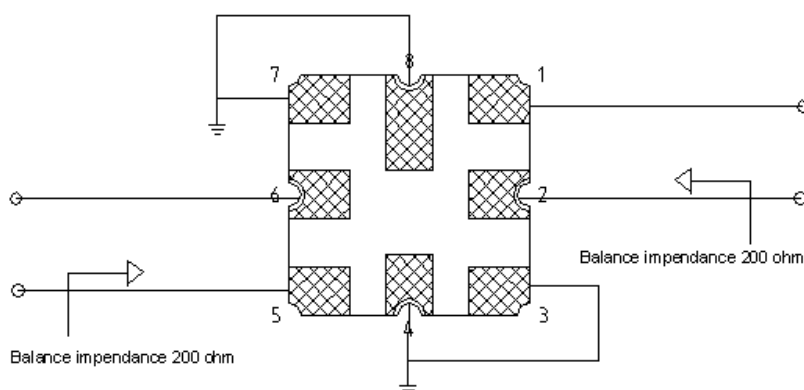
Balanced to balanced operation

Terminating source impedance: $Z_S=200\Omega$

Terminating load impedance: $Z_L=200\Omega$

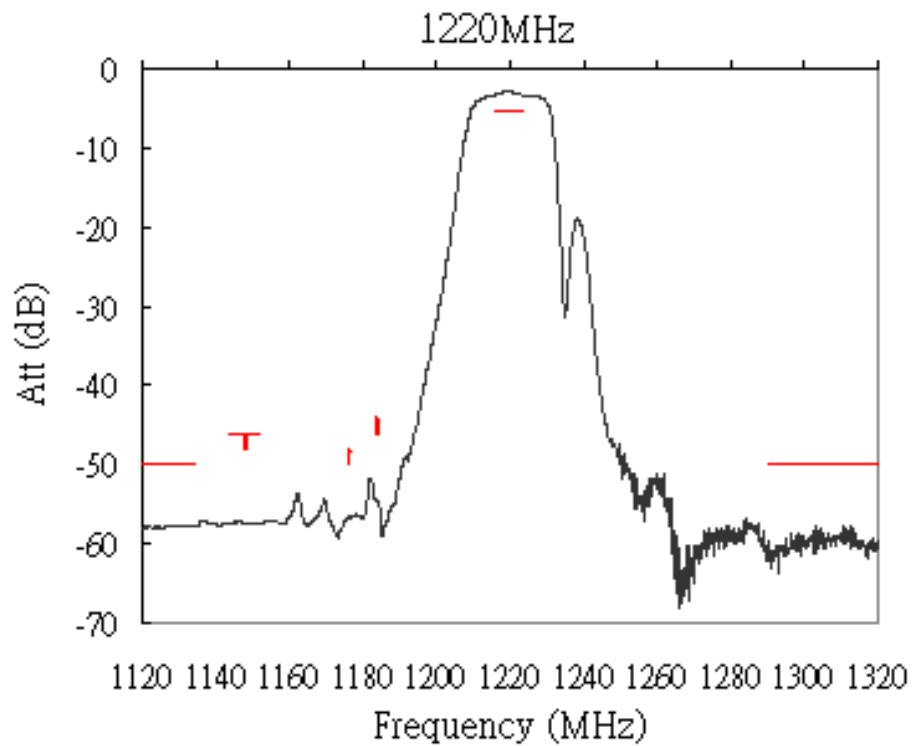
Characteristics		Value			Note
		Min.	Typ.	Max.	
Center frequency	F_C MHz	-	1220	-	-
Insertion loss 1216~1224 MHz	I.L. dB	-	3.4	5.3	-
Ripple 1216~1224MHz	dB	-	0.6	1.8	-
Attenuation:(Reference level from 0 dB)					
1) 500..Fc-91MHz	dB	50	57	-	-
2) Fc-91...Fc-85 MHz	dB	50	57	-	-
3) Fc-76...Fc-68 MHz	dB	46	57	-	-
5) Fc-88 MHz	dB	50	57	-	-
6) Fc-72 MHz	dB	48	57	-	-
7) Fc-44 MHz	dB	50	56	-	-
8) Fc-36 MHz	dB	46	55	-	-
9) Fc+70...2000 MHz	dB	50	55	-	-
Group delay ripple(p-p) (1216~1224MHz)	nS	-	12	-	

C. MEASUREMENT CIRCUIT:

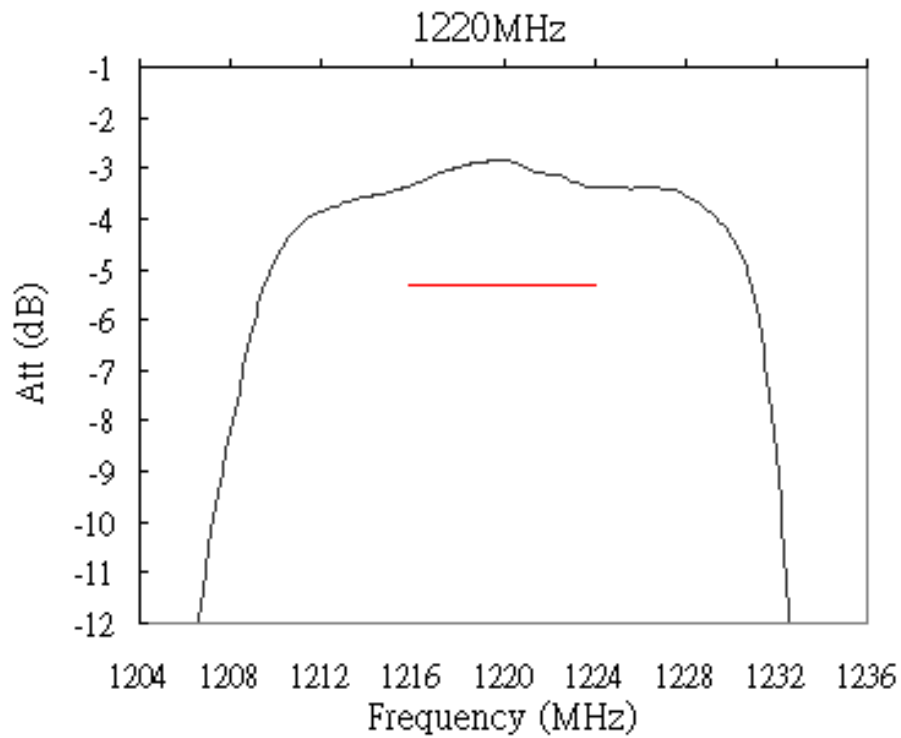


D. Frequency Characteristics :

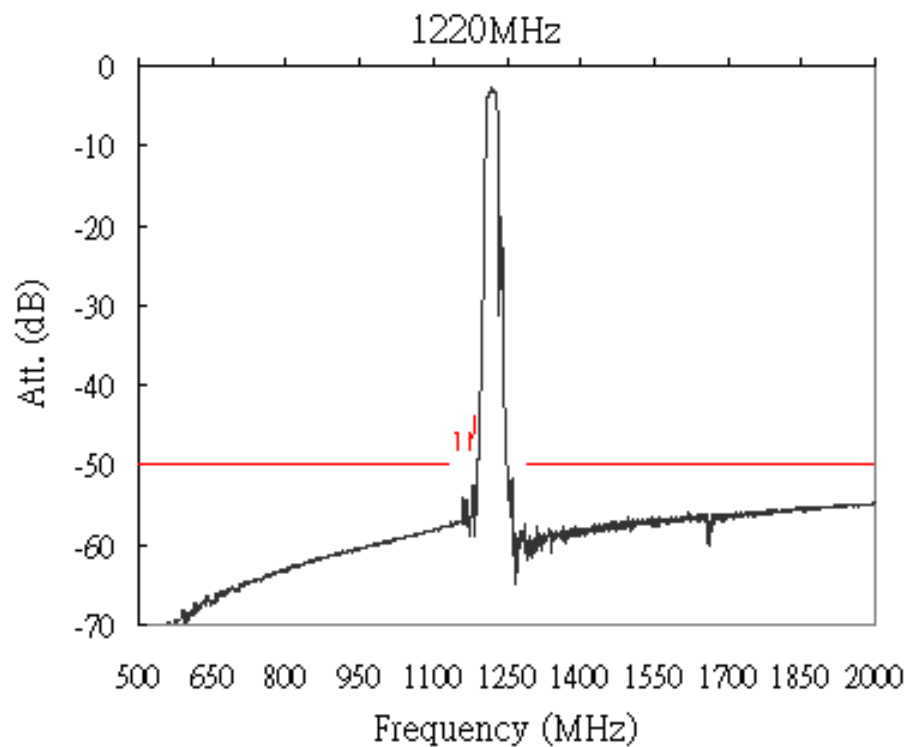
1. Sdd21 Response



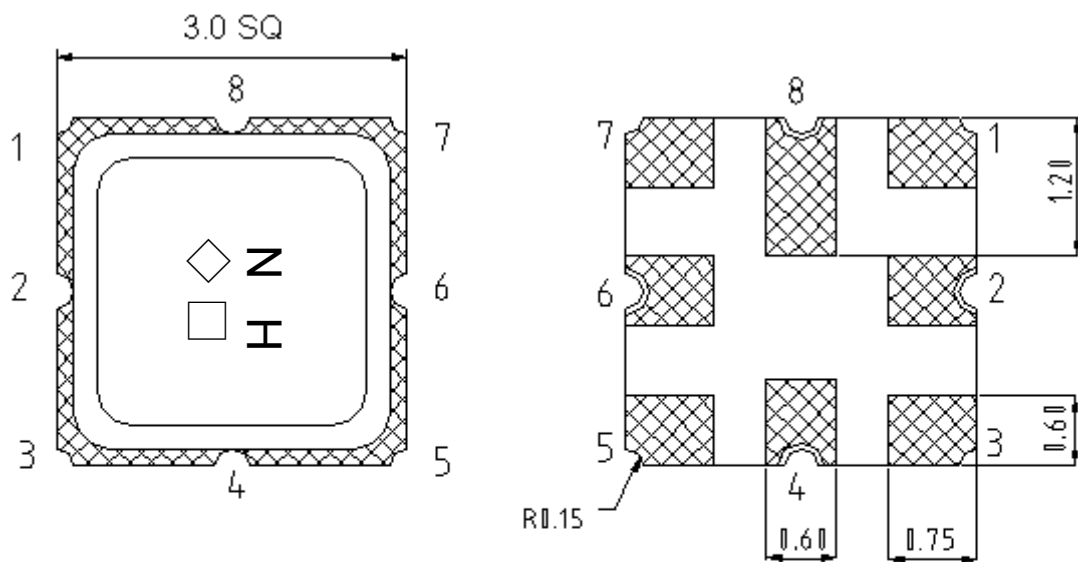
2. Sdd21 Response (Inband)



3. Sdd21 Response (wideband)



E.OUTLINE DRAWING:



Pin 1,2 : Balanced Input

Pin 5,6 : Balanced Output

P3,4,7,8 : Ground

◇ : Year Code

□ : Date Code

Unit : mm

1. REEL DIMENSION

See DETAIL 'A'

Technical drawing showing a circular cross-section of a structural member. The drawing includes a large outer circle and a smaller concentric dashed circle representing a hole. A leader line points from the text "See DETAIL 'A'" to the hole. To the right, a vertical section view shows the member's profile with dimensions: a total height of 12.0 and a central hole diameter of $\phi 100$ REF. Below the main drawing, a detail view of the hole shows a circular cross-section with a diameter of $\phi 13.0$ and a thickness of 2.0.

Technical drawing of a 12.0mm wide metal plate. The drawing includes a top view and two cross-sections, A-A and B-B.

Top View Dimensions:

- Overall width: 12.0
- Overall length: 17.75
- Distance from left edge to first hole center: 2.0
- Distance between hole centers: 4.0
- Distance from last hole center to right edge: 2.0
- Distance from left edge to first square feature center: 3.35
- Distance between square feature centers: 8.0
- Distance from last square feature center to right edge: 3.35
- Distance from top edge to hole centers: 5.5
- Distance from top edge to square features: 3.35
- Distance from bottom edge to hole centers: 5.5
- Distance from bottom edge to square features: 3.35

Section A-A:

- Top flange thickness: 0.3
- Top flange radius: R0.3 (MAX.)
- Bottom flange thickness: 1.4

Section B-B:

- Top flange thickness: 0.3
- Top flange radius: R0.3 (MAX.)
- Bottom flange thickness: 1.4

Other Features:

- Eight circular holes with diameter $\varnothing 1.5$.
- Four square features with side length 3.35.
- Radius R0.5 (TYP.) at the corners of the plate.