



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 36.125MHz SMD 10.8×3.8mm

TST Parts No.:TB0601A

Customer Parts No.:_____

<p>Company:_____</p> <p>Division:_____</p> <p>Approved by :_____</p> <p>Date:_____</p>
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Checked by: Andy Yu *Andy*

Approval by: Francis Chen *Francis*

Date: 2009/11/13

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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IF SAW Filter 36.125MHz SMD 10.8X3.8mm

MODEL NO.: TB0601A

REV. No 2.0

A. Maximum Rating:

1. Operating Temperature: -25°C ~ 65°C
2. Storage Temperature: -40°C ~ 85°C
3. Input power Level: 10dBm

RoHS Compliant Lead free Lead-free soldering
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B. Characteristics :

1. Ambient Temperature : 25°C
2. Terminating Source Impedance: Single ended 50 ohm
3. Terminating Load Impedance: Balanced 2000 ohm

Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	36.125	-
Insertion Loss, IL	dB	-	24.0	27.0
1 dB Bandwidth	MHz	-	7.4	-
3 dB Bandwidth	MHz	-	7.9	-
30 dB Bandwidth	MHz	-	9.5	-
Group Delay Variation	nS	-	120	-
Relative Attenuation:				
32.32MHz	dBc	-	1.58	-
39.94MHz	dBc	0.50	1.25	2.50
32.13MHz	dBc	2.20	3.23	4.60
40.13MHz	dBc	2.10	3.06	4.60
31.25MHz	dBc	27.0	32.0	-
47.25MHz	dBc	34.0	40.0	-
Ultimate Rejection:				
25.00MHz~30.15MHz	dBc	30.0	35.0	-
30.15MHz~31.25MHz	dBc	24.0	29.0	-
41.3MHz~42.00MHz	dBc	24.0	27.0	-
42.00MHz`50.00MHz	dBc	28.0	32.0	-
Temperature Coefficient	ppm/K	-	-72	-

C. Frequency Characteristics :

(1) S21 Response:

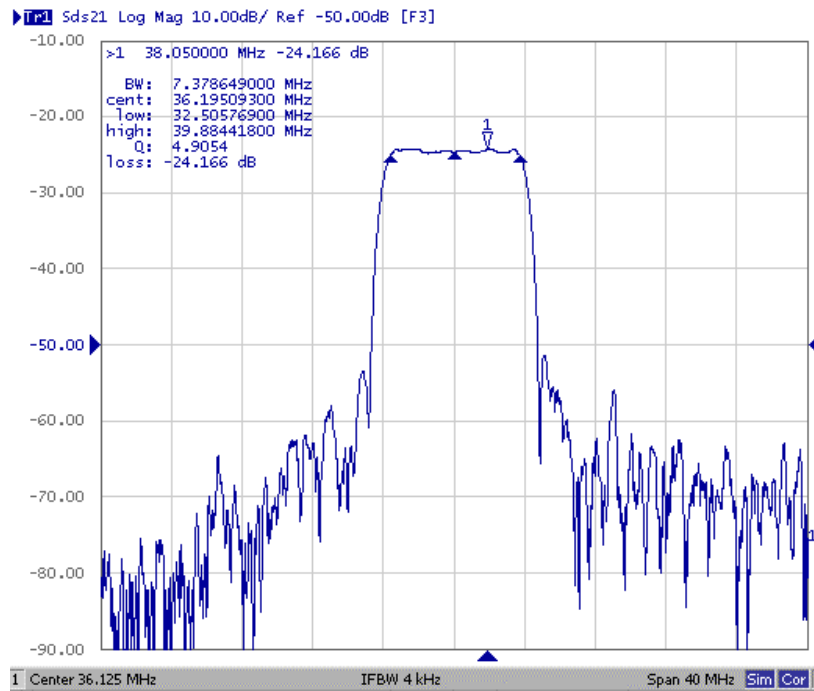


Fig1. Horizontal: 4MHz/Div Vertical: 10dB/Div

(2) Passband Response:

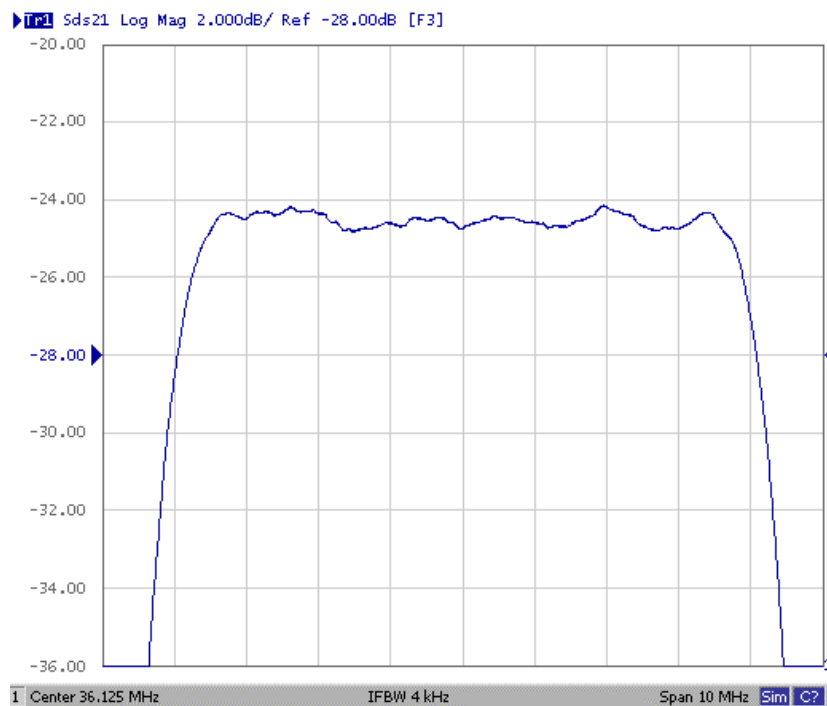


Fig2. Horizontal: 1MHz/Div Vertical: 2dB/Div

(3) Group Delay response

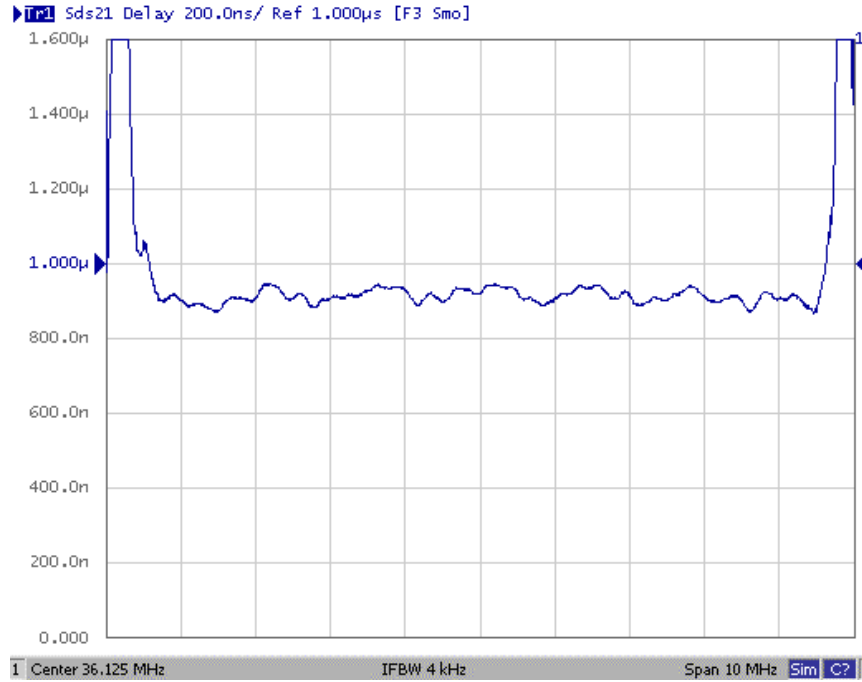
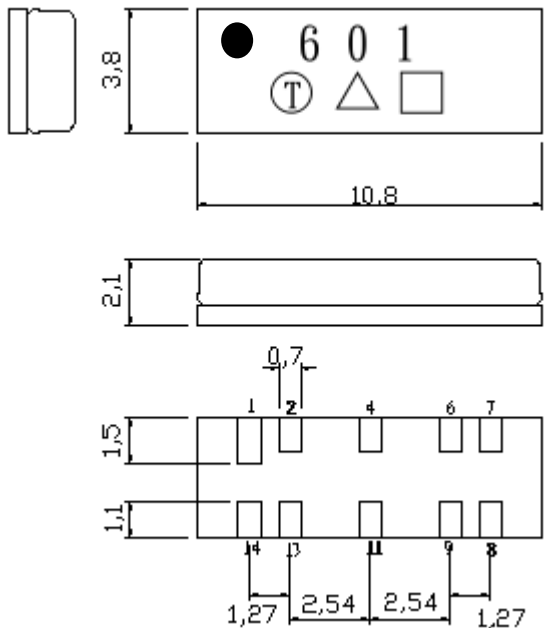


Fig3. Horizontal: 1MHz/Div Vertical: 200nS/Div

D. Outline Drawing:

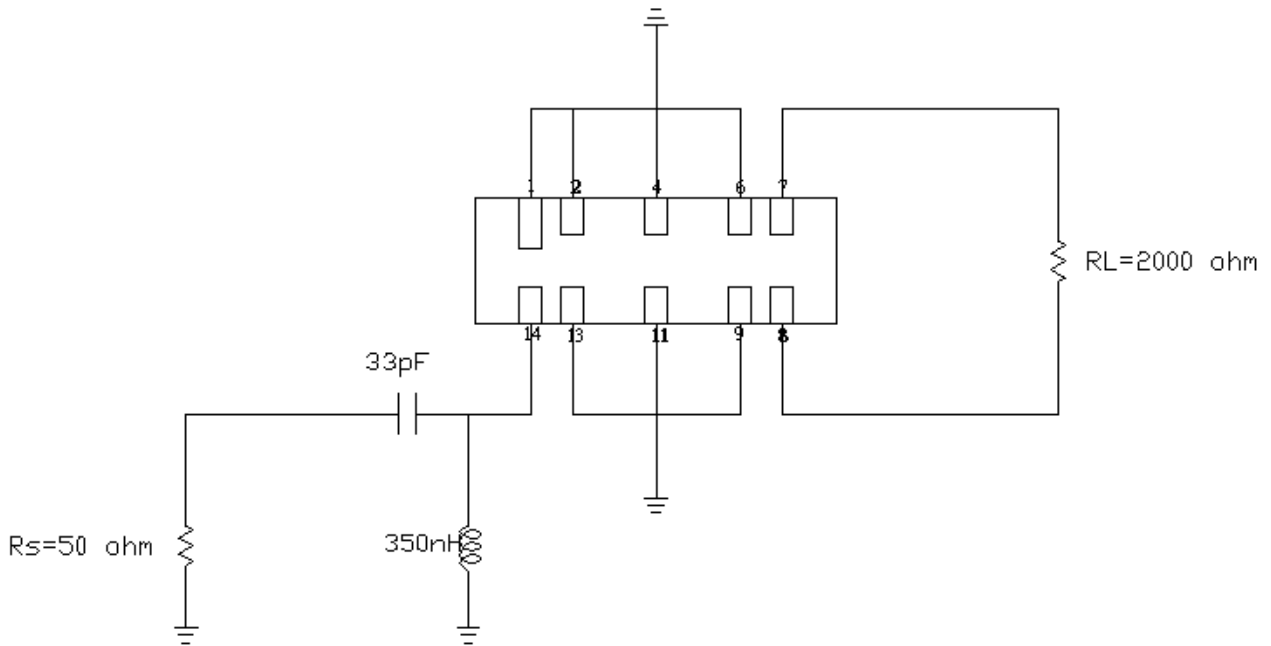


- Pin 14 : RF Input
- Pin 1 : RF Input Ground
- Pin 8 : RF Balanced output +
- Pin 7: RF Balanced output -
- Pin 2,4,6,9,11,13 : Ground
- : Week Code (Follow the table from planner each year)
- △ : Product / Year Code
- Unit : mm

Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

E. Matching Circuit:

(1) Single ended input 50 ohm to Balanced output 2000 ohm



F. Recommended Reflow Profile:

