



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Name: SAW Filter 140MHz DIP 35.0×12.8mm

TST Parts No.:TB0821A

Customer Parts No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Andy Yu *Andy*

Approval by: _____ Francis Chen *Francis Chen*

Date: _____ 01/25/2010

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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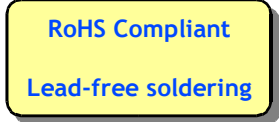
SAW Filter 140 MHz(BW=0.2MHz) DIP 35.0mmx12.8mm

MODEL NO.: TB0821A

REV.2.0

A. MAXIMUM RATING:

1. Operating Temperature: -40 °C ~ +85 °C
2. Storage Temperature: -40 °C ~ +105 °C
3. Input power: 10dBm



B. Characteristics :

Ambient Temperature: 25 °C

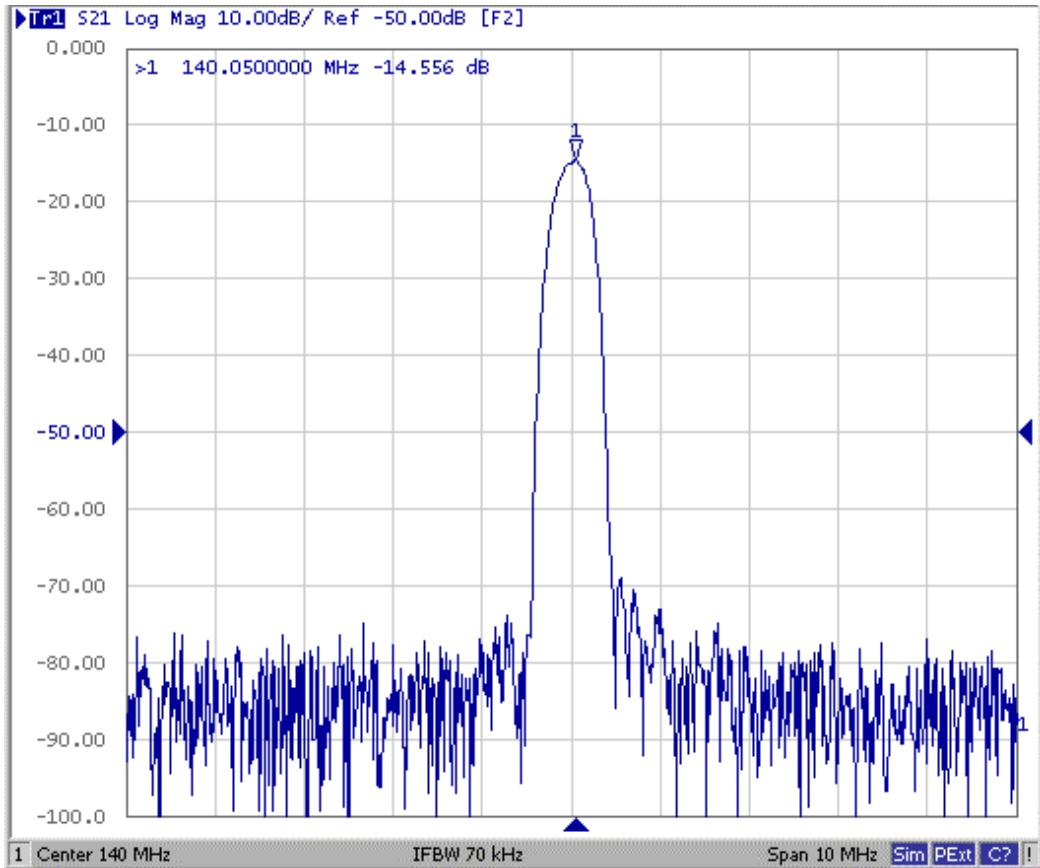
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	139.95	140.0	140.05	-
Minimum Insertion loss I.L. dB	-	15.0	22.0	-
1.5dB Bandwidth MHz	0.2	0.23	-	-
Passband Variation dB	-	0.5	-	-
Absolute Delay usec		4.6	4.8	
Ultmate Rejection				
$F_c \pm 0.5\text{MHz}$ dB	38	52	-	
$F_c \pm 0.7\text{MHz}$ dB	46	56	-	
$F_c \pm 1.1\text{MHz}$ dB	55	65	-	
$F_c \pm 5.1\text{MHz}$ dB	55	70	-	
Temp Coefficient ppm/K	-	-0.032	-	-

Matching:

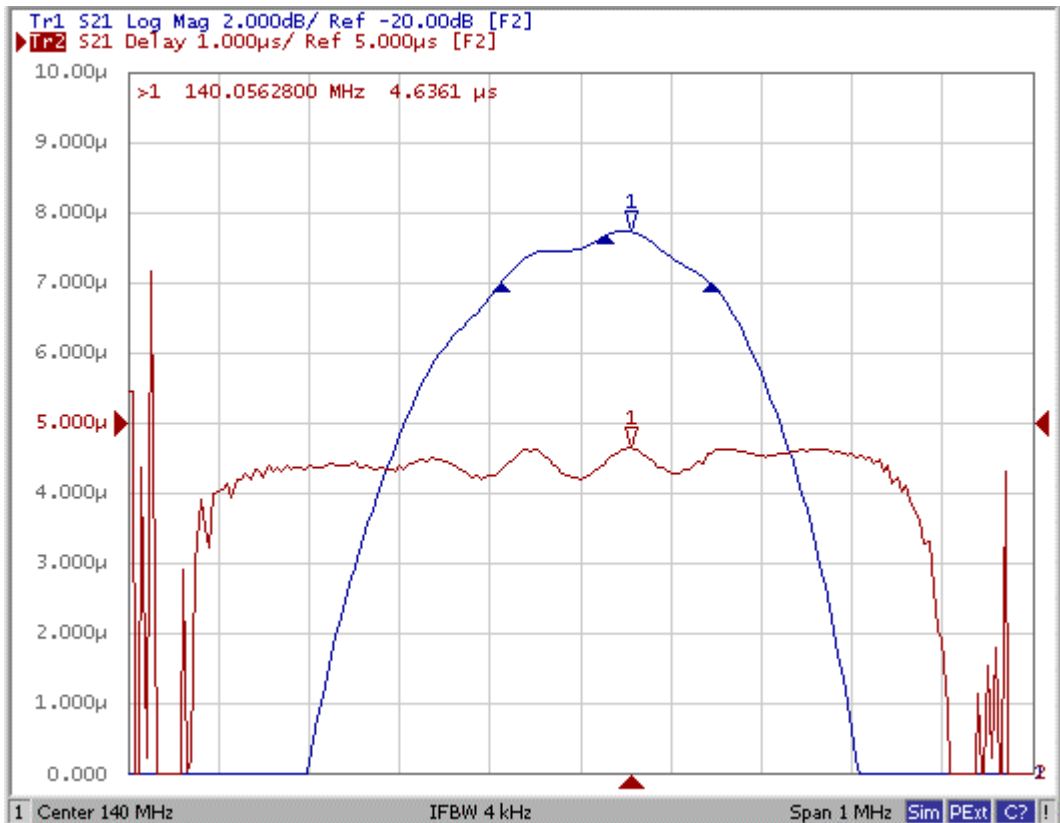
- 1.The input of the filter will be matched to 50 ohm
- 2.The output of the filter will be matched to 50 ohm

D. FREQUENCY CHARACTERISTICS :

1.S21 Response: (span : 10MHz)

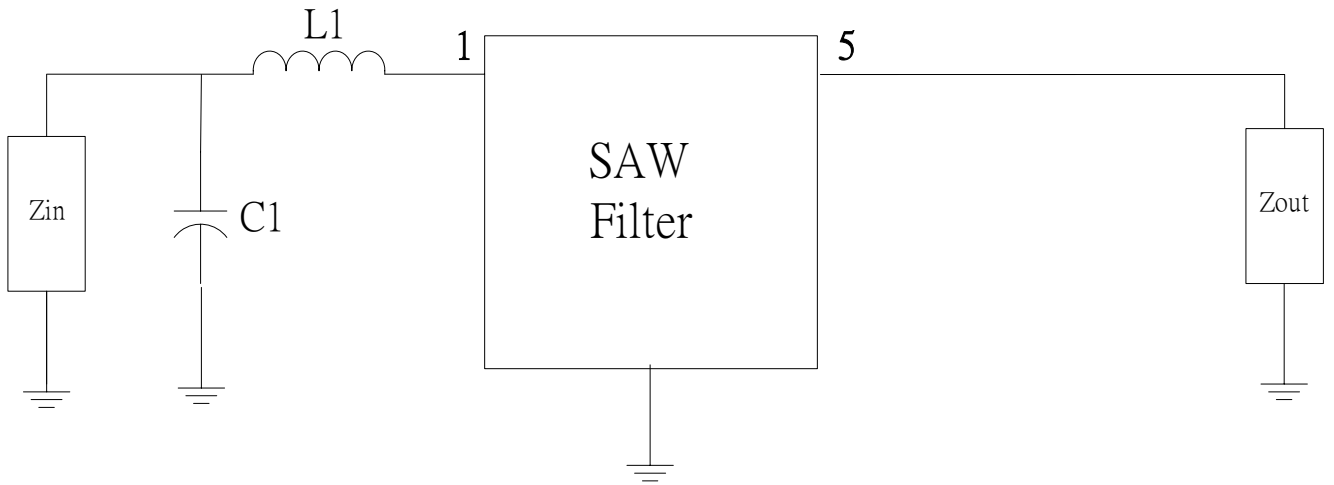


2. Group-Delay Ripple: (span : 1MHz)



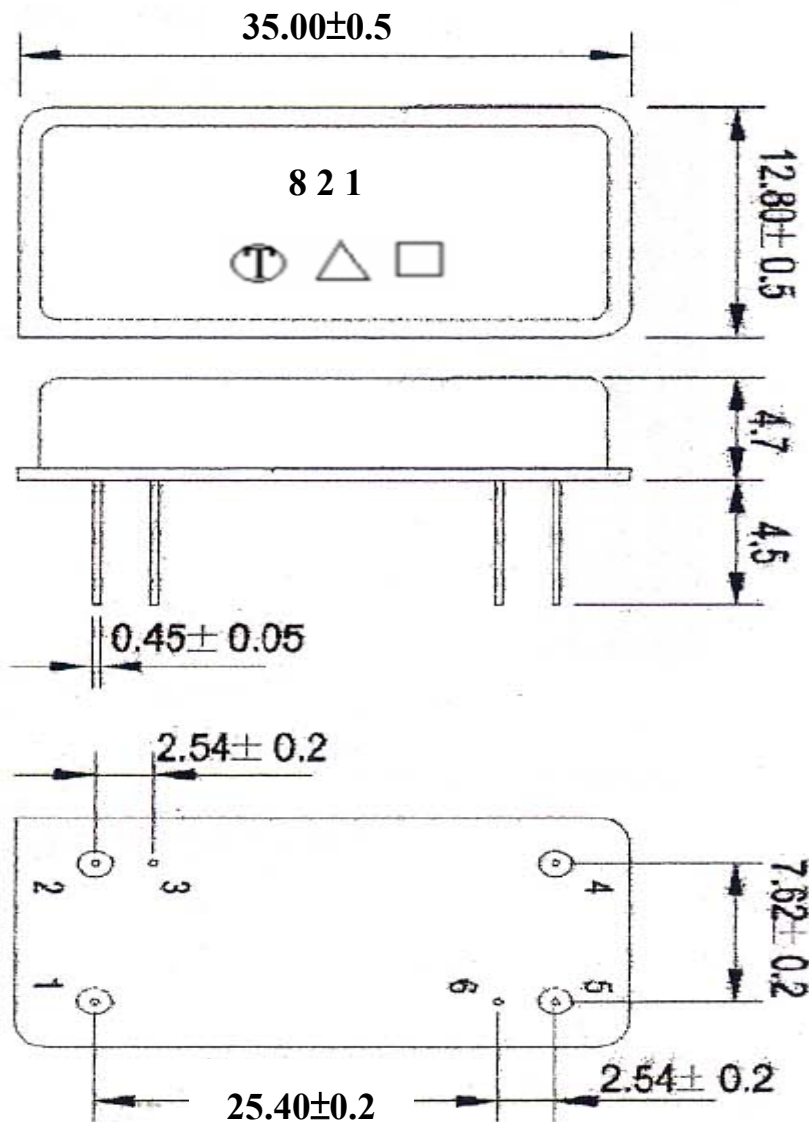
E. MEASUREMENT CIRCUIT

$Z_{in} = Z_{out} = 50 \text{ ohm}$



$L1 = 25 \text{ nH}, C1 = 22 \text{ pF}$

F. OUTLINE DRAWING:



Pin 1: RF input

Pin 5: RF output

Pin 3,6: Case Ground

Pin 2, 4: Ground

□: Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

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

G. Recommended Reflow Profile:

