



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Name: IF SAW Filter 240 MHz 0.4MHz BW SMD 13.3x6.5mm

TST Parts No.:TB0309A

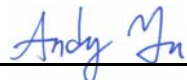
Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Yu 

Approval by:_____ Bob Chau 

Date:_____ 2014/07/15

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 240MHz 0.4MHz BW SMD 13.3X6.5mm

MODEL NO.: TB0309A

Rev. No.: 2.0

A. MAXIMUM RATING:

1. Operating Temperature: -20 °C ~ +60 °C
2. Storage Temperature: -40 °C ~ +85 °C
3. Input Power Level: 15dBm

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

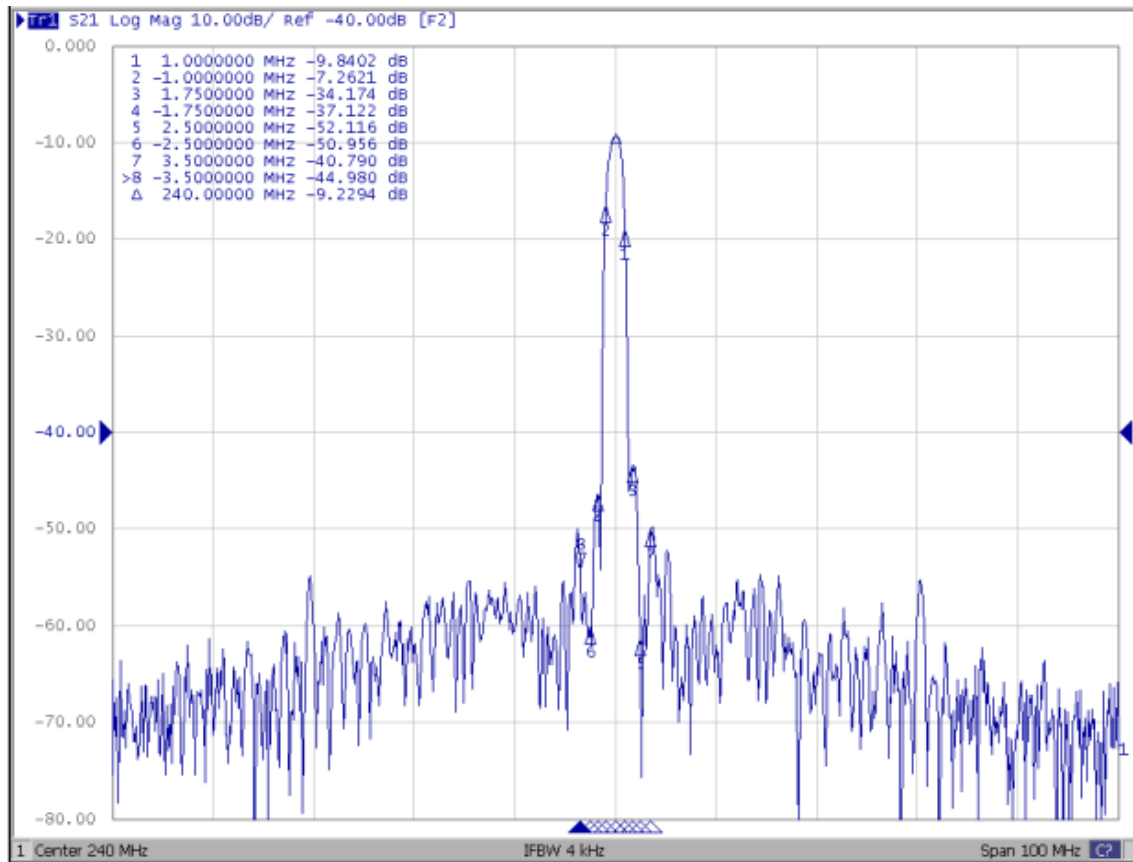
B. Characteristics :

1. Ambient Temperature: 25 °C

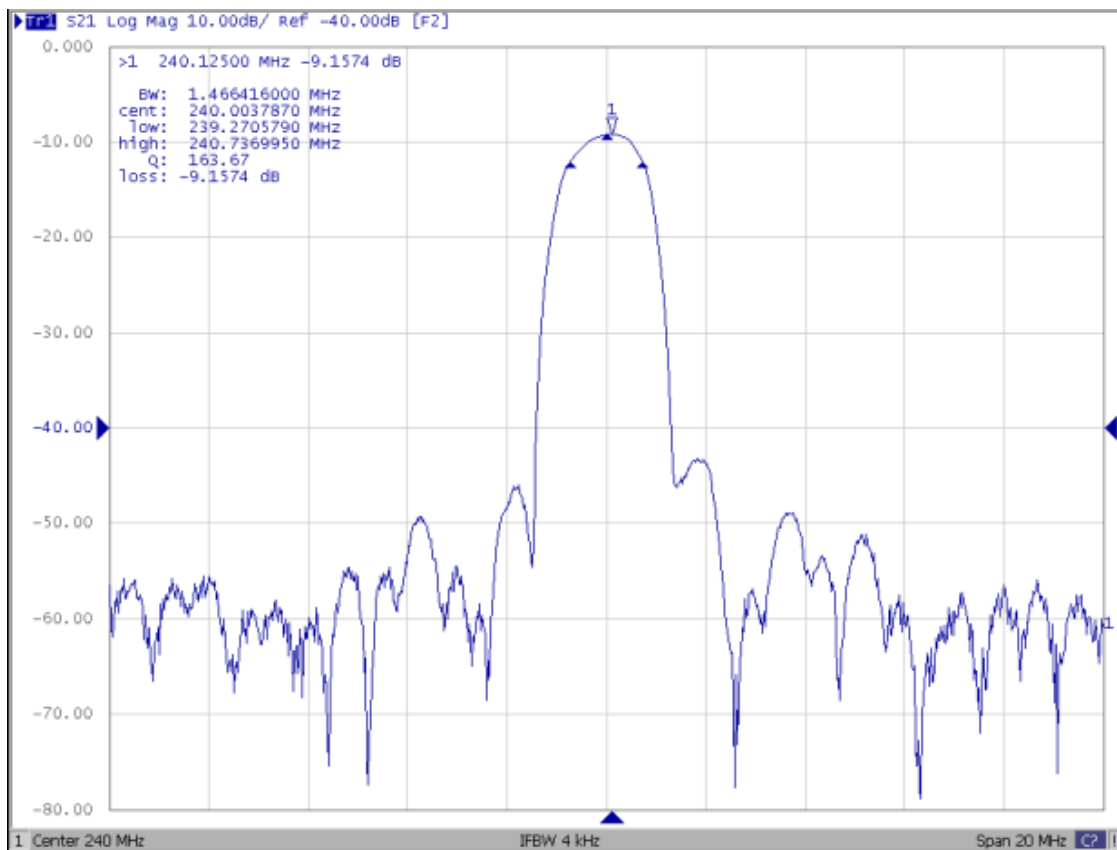
Characteristics		Value			Note.
		Min.		Max.	
Center frequency	F_c MHz	239.9	240.0	240.1	-
Minimum Insertion loss	I.L. dB	-	9.1	10	-
3dB Bandwidth	kHz	1000	1450	-	
Passband Ripple ($F_c \pm 0.2$ MHz)	dB	-	0.2	1	-
Group Delay Ripple ($F_c \pm 0.2$ MHz)	nS	-	60	200	-
Attenuation:(Reference level from minimum insertion loss)					
1)	$F_c \pm 1.0$ MHz	dB	5	7.5	-
2)	$F_c \pm 1.75 \sim 2.5$ MHz	dB	30	34	-
3)	$F_c \pm 2.5 \sim 3.5$ MHz	dB	38	50	-
4)	$F_c \pm 3.50 \sim 50.0$ MHz	dB	36	40	-

C. Frequency Characteristics :

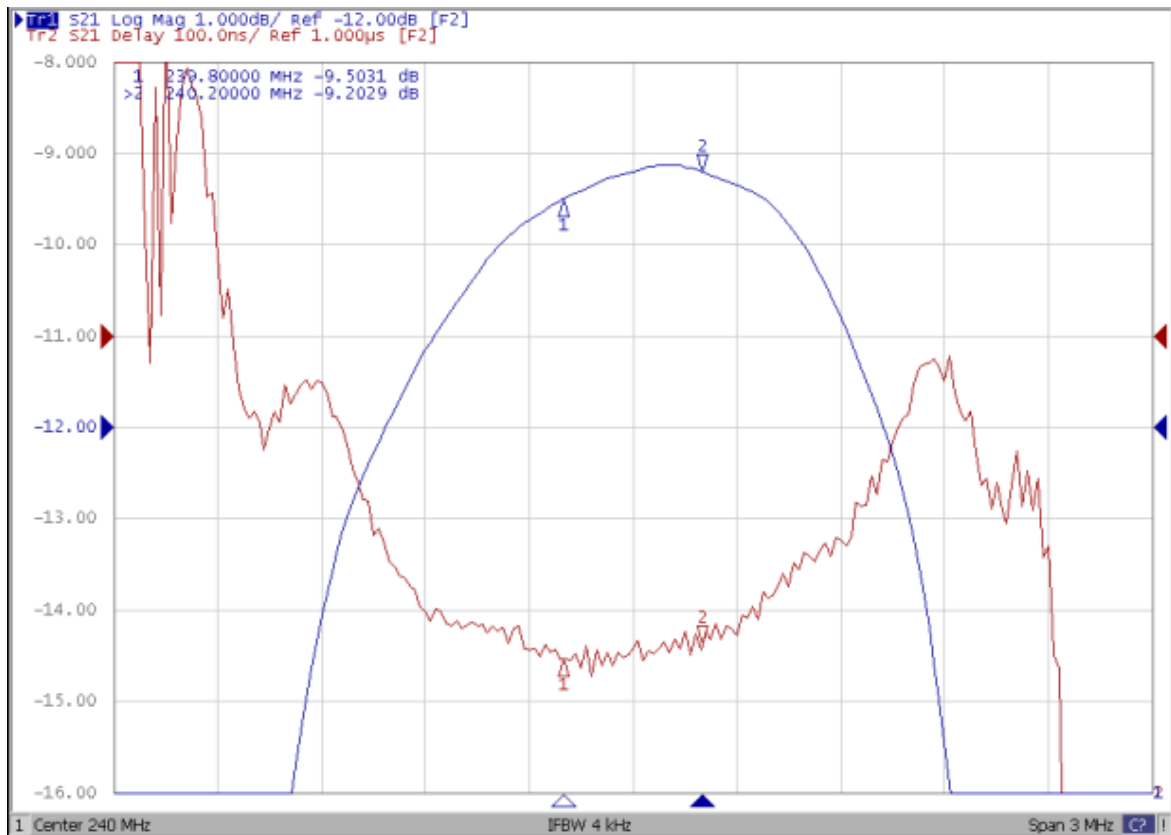
1. S21 Response (span 100MHz)



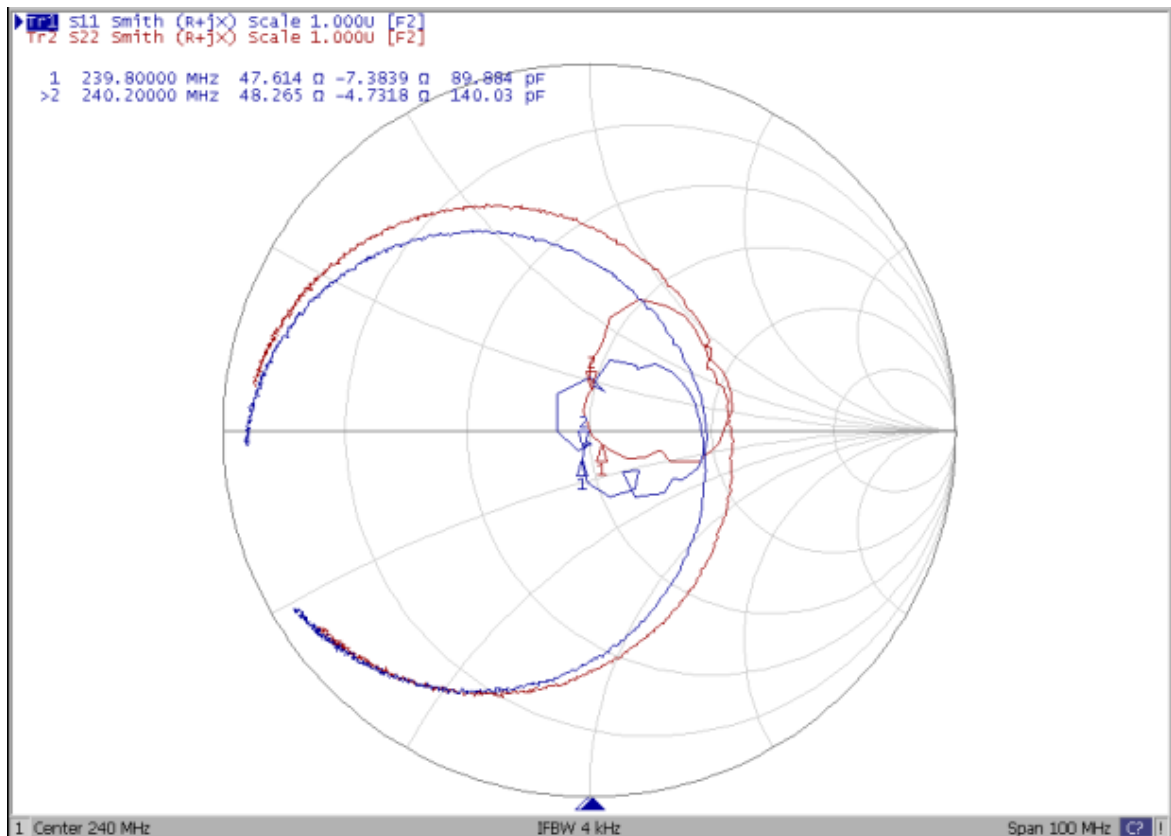
2. S21 Response (span 20MHz)



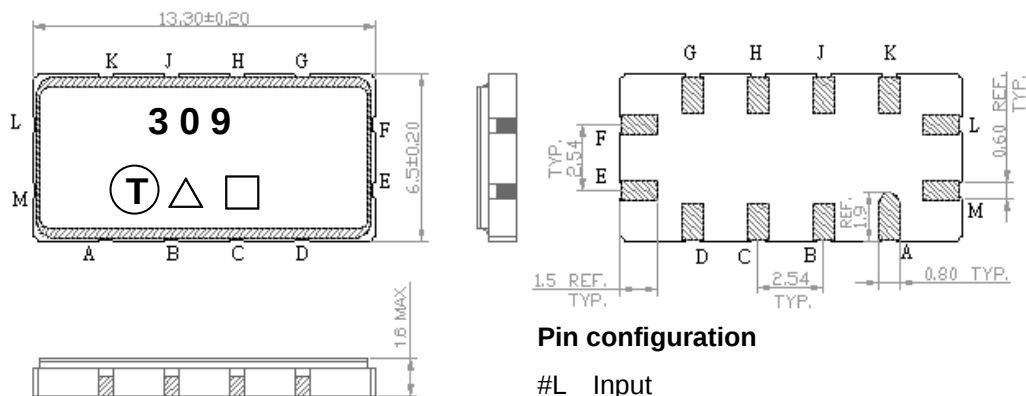
3. Pass band Ripple and Group Delay Ripple



4. S11 & S22 Smith-Chart:



D. Outline Drawing:



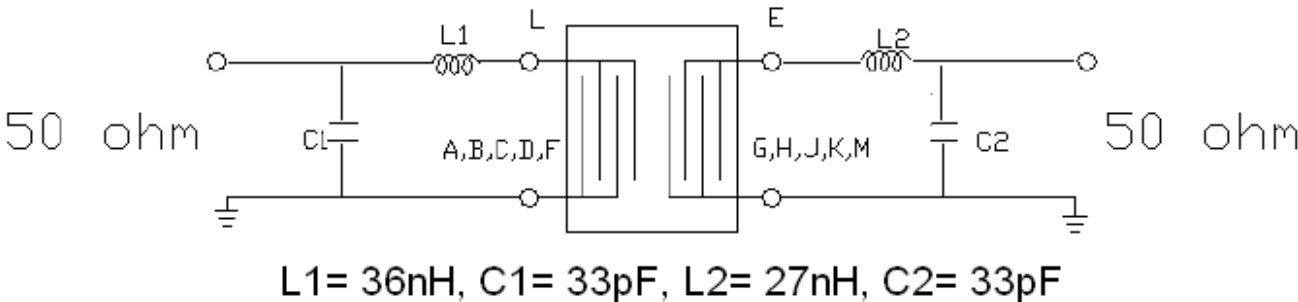
Pin configuration

- #L Input
- #M Input Ground
- #E Output
- #F Output Ground
- #A,B,C,D,G,H,J,K To be grounded
- △ : Product / Year Code
- :Date code
- Unit mm

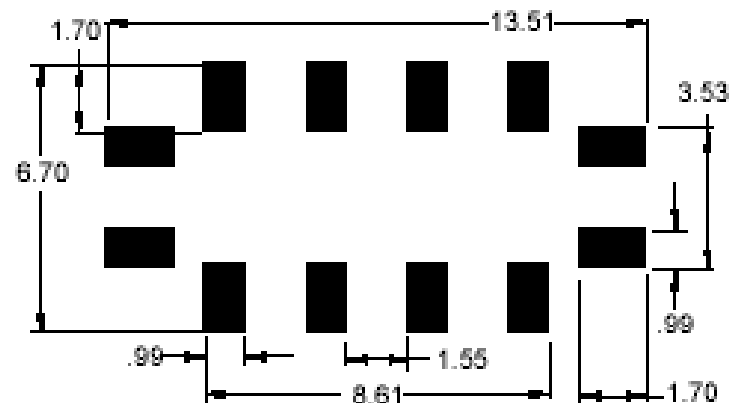
Year	2013 2009	2014 2010	2015 2011	2016 2012
Product Code	B	b	<u>B</u>	<u>b</u>

E. Measurement Circuit:

Single end input 50 ohm to Single end output 50 ohm



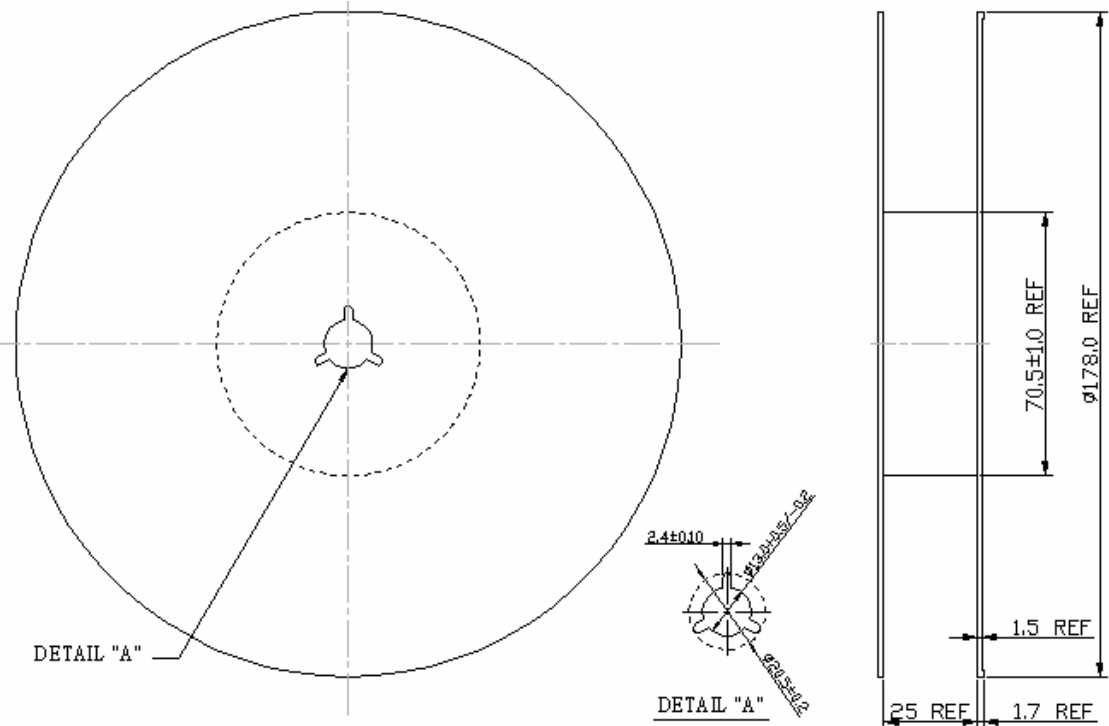
F. PCB Footprint



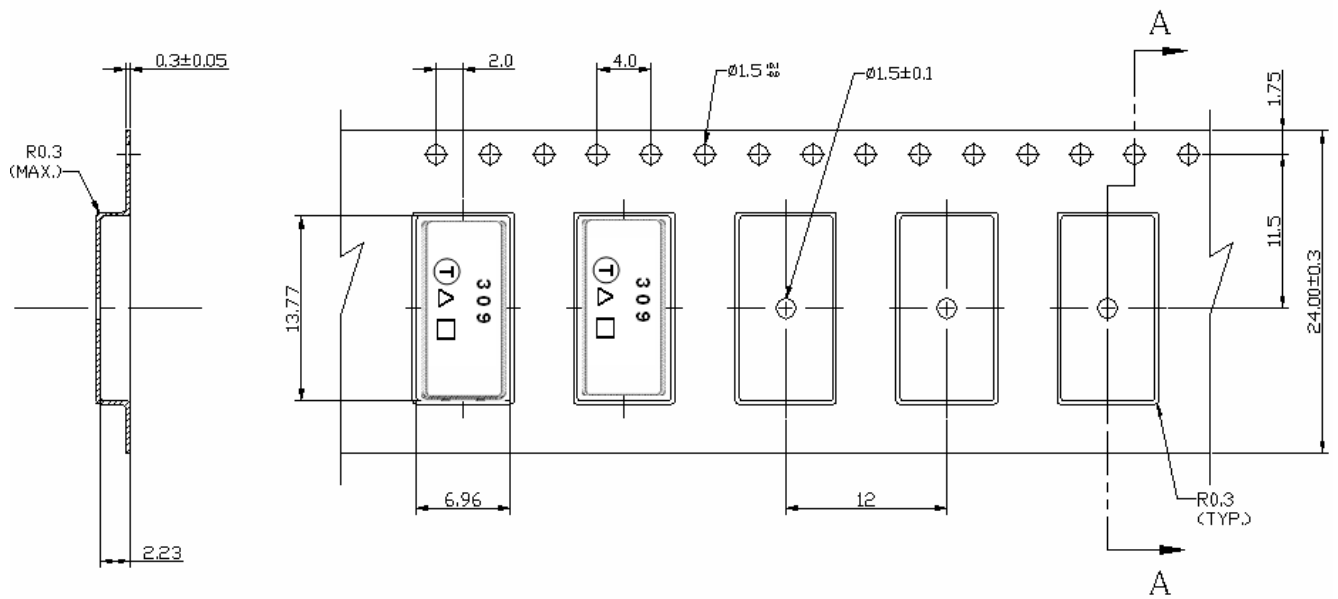
G. PACKING:

(1). REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



(2). TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

