



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Name: SAW Filter 240MHz BW 5MHz SMD 13.3×6.5mm

TST Part No.:TB1156A

Customer Parts No.:_____

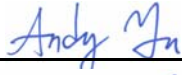
Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Yu 

Approval by:_____ Bob Chau 

Date:_____ 2014/06/26

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(BW=5MHz) SMD 13.3×6.5mm

MODEL NO.: TB1156A

Rev. No. V1.0

A. Maximum Rating:

0. Maximum Input Power: 10dBm

1. Operating Temperature: -20 °C ~ +85 °C

2. Storage Temperature: -40 °C ~ +85 °C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

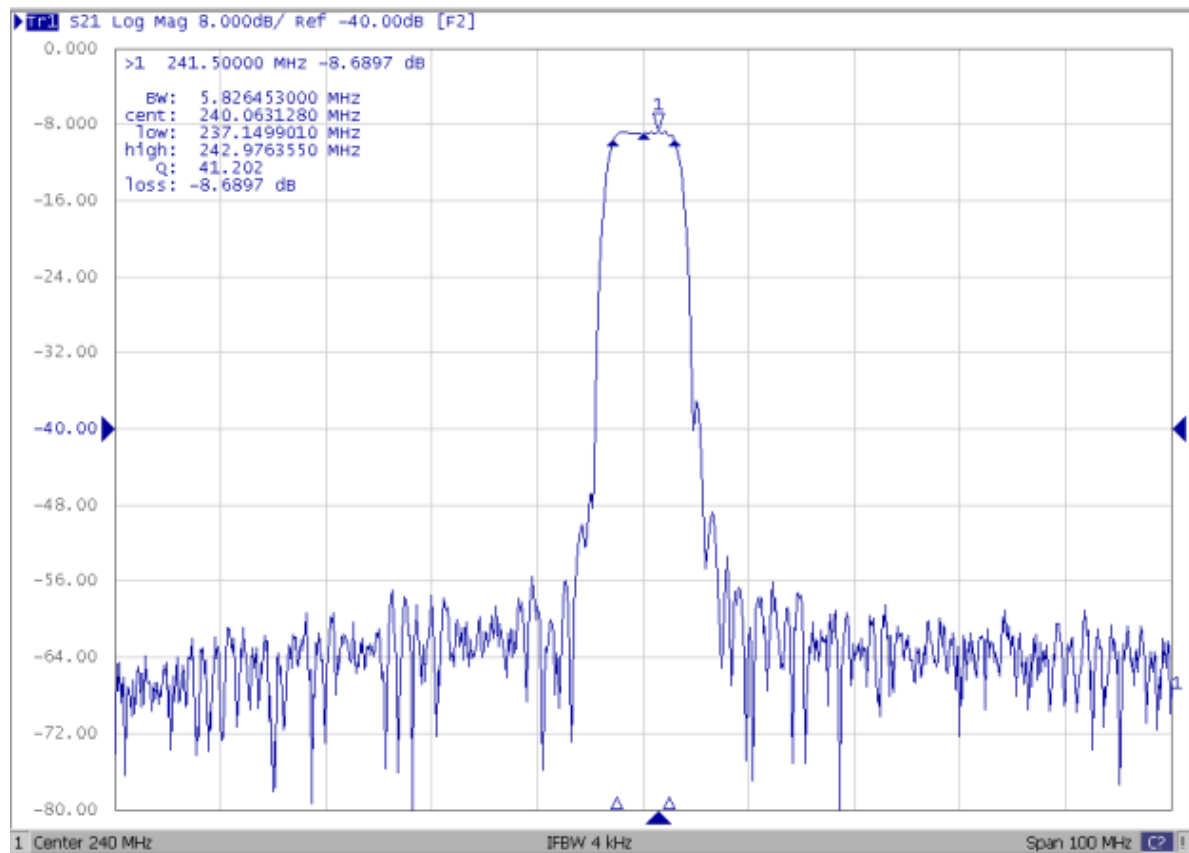
B. Characteristics :

Ambient Temperature: 25 °C

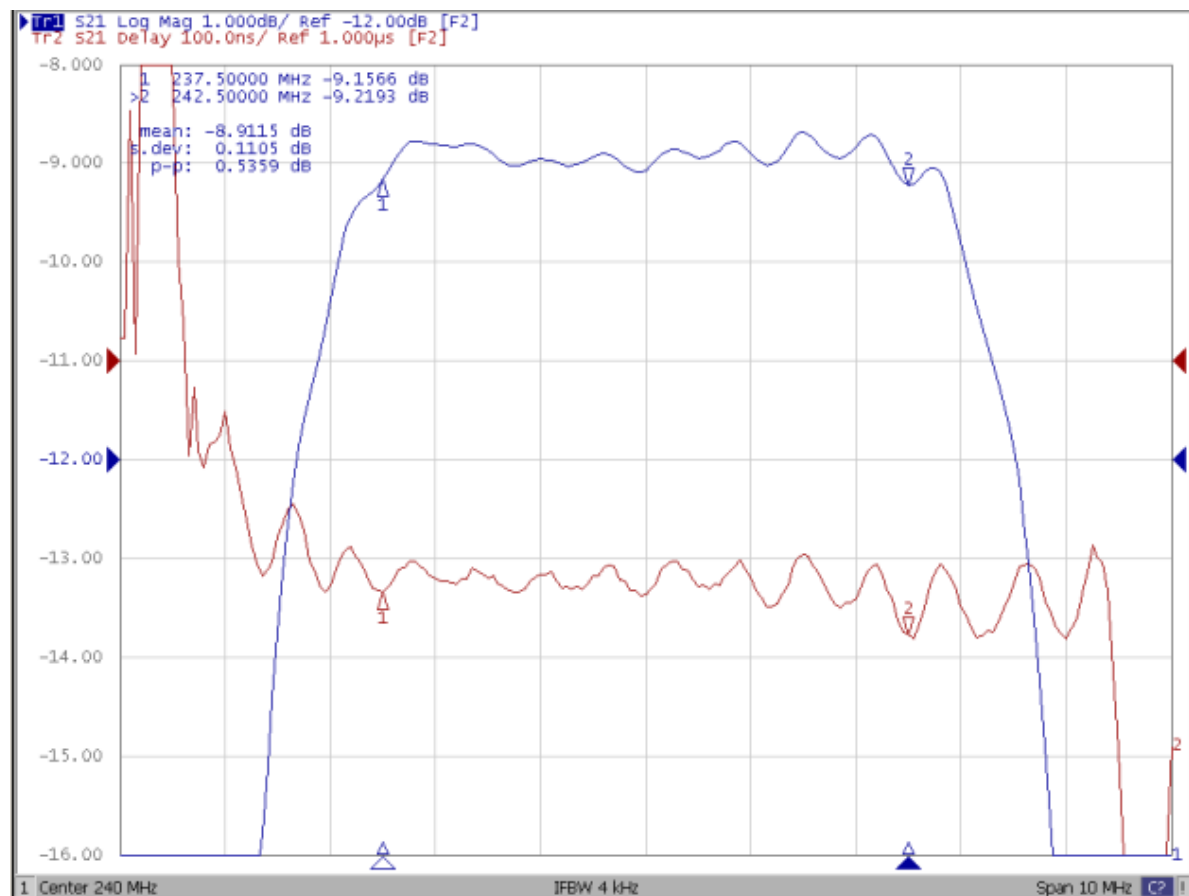
Item	Unit	Min.	Typ.	Max.
Center frequency, F_c	MHz	239.5	240	240.5
Minimum Insertion Loss, IL	dB	-	8.7	14
1dB Bandwidth	MHz	5.0	5.8	-
3dB Bandwidth	MHz	-	6.7	7.2
40 dB Bandwidth	MHz	-	10.8	13
Group Delay ripple (237.5-242.5MHz)	nS	-	80	200
Amplitude ripple (237.5-242.5MHz)	dB	-	0.5	1
Attenuation:(Reference level from Min IL)				
10~233MHz	dB	45	48	-
247MHz~470MHz	dB	45	48	-

C. Frequency Characteristics :

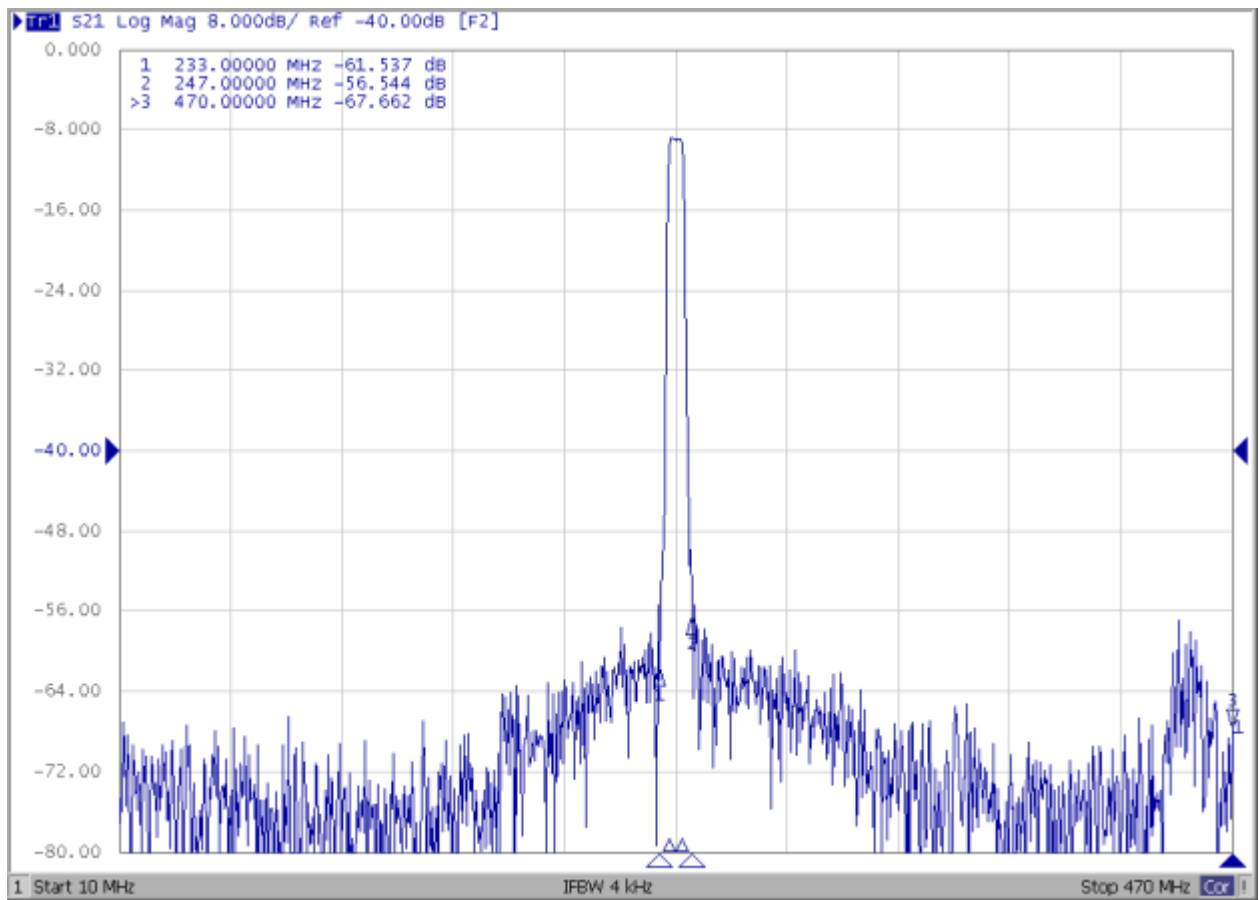
1.S21 Response: (span 100MHz)



2.S21 Response: (span 10MHz)

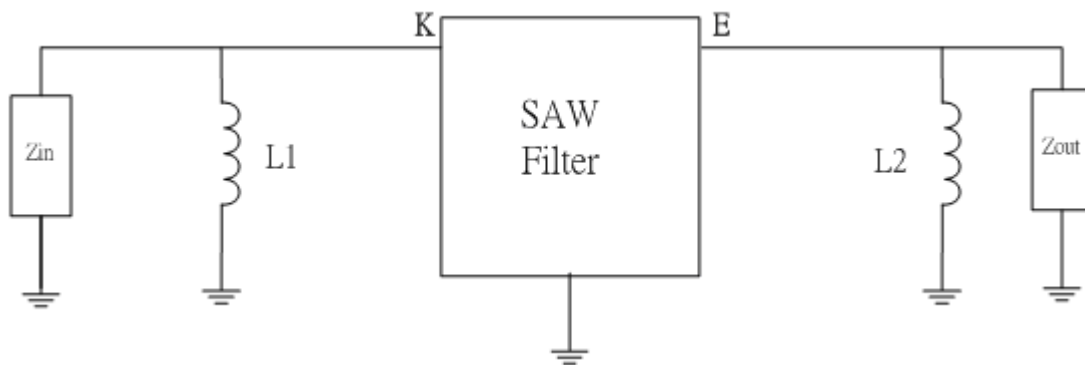


3. S11 Smith-Chart: (span 470MHz)



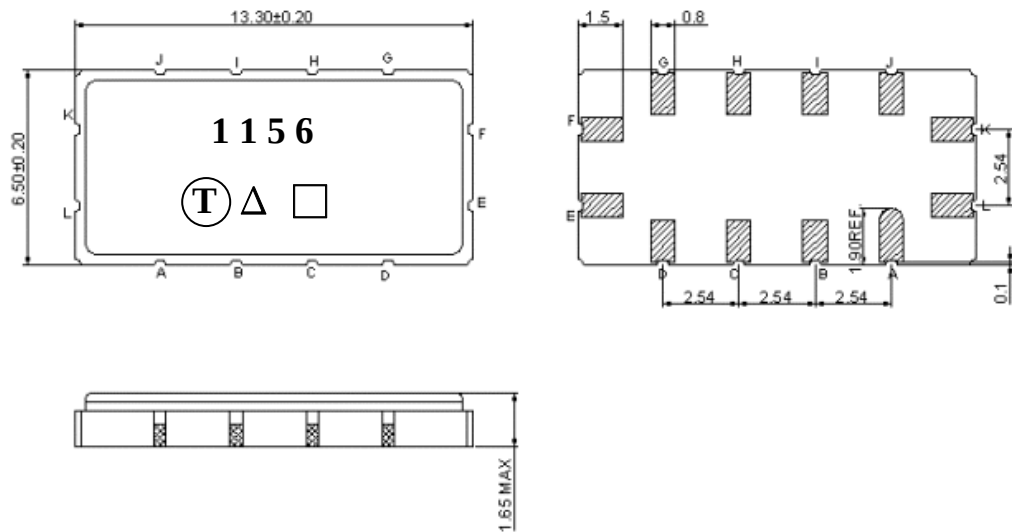
D. Measurement Circuits :

Single In/Output: ($Z_{in} = Z_{out} = 50 \Omega$)



$L1 = 22\text{nH}$, $L2 = 22\text{nH}$.

D. Outline Drawing:



Pin K: RF input

Pin E: RF output

Pin A, B, C, D, G, H, I, L, F, J: To be Ground

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

Unit : mm (week01, 02, 03...52 =>A, B, C...z)

△ : Product / Year Code

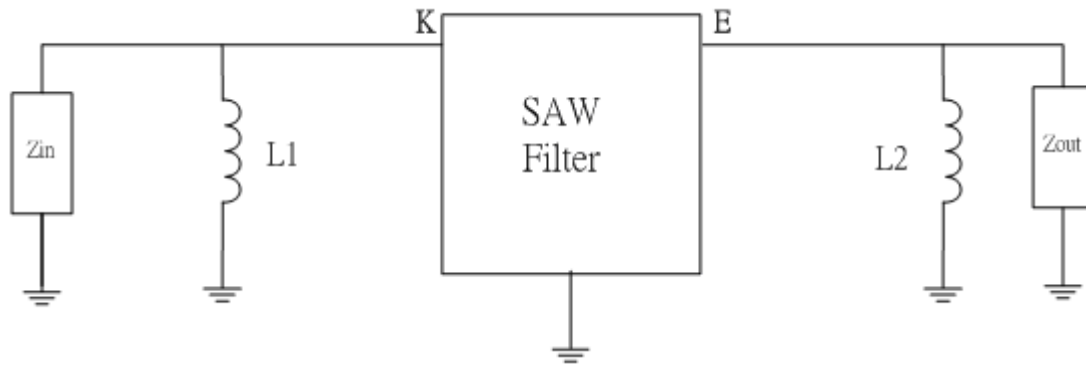
Year	2013 2009	2014 2010	2015 2011	2016 2012
Product Code	B	b	<u>B</u>	<u>b</u>

Date Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

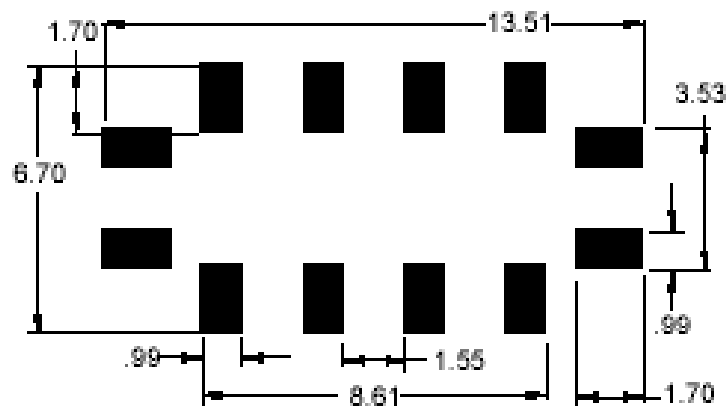
E. Measurement Circuits :

Single In/Output: ($Z_{in} = Z_{out} = 50\Omega$)



$L1=22\text{nH}$, $L2=22\text{nH}$.

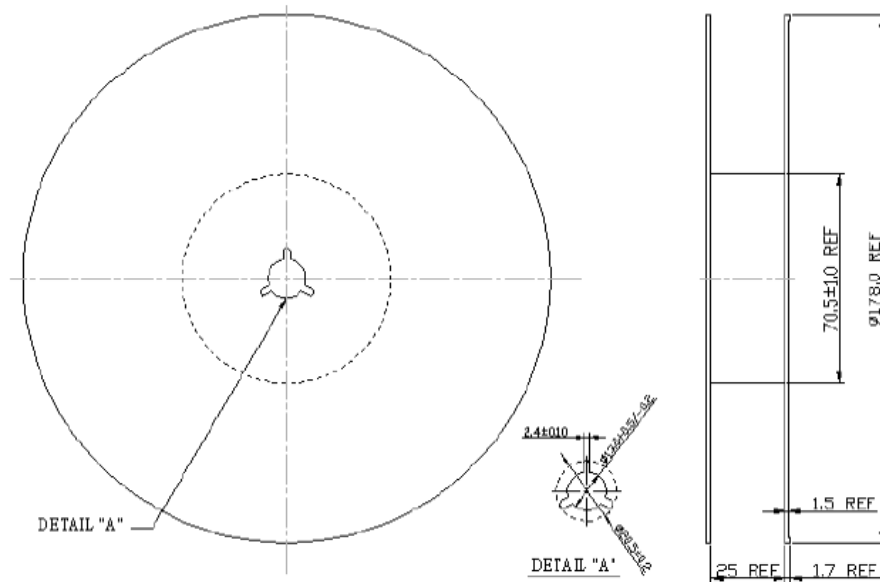
F. PCB Footprint



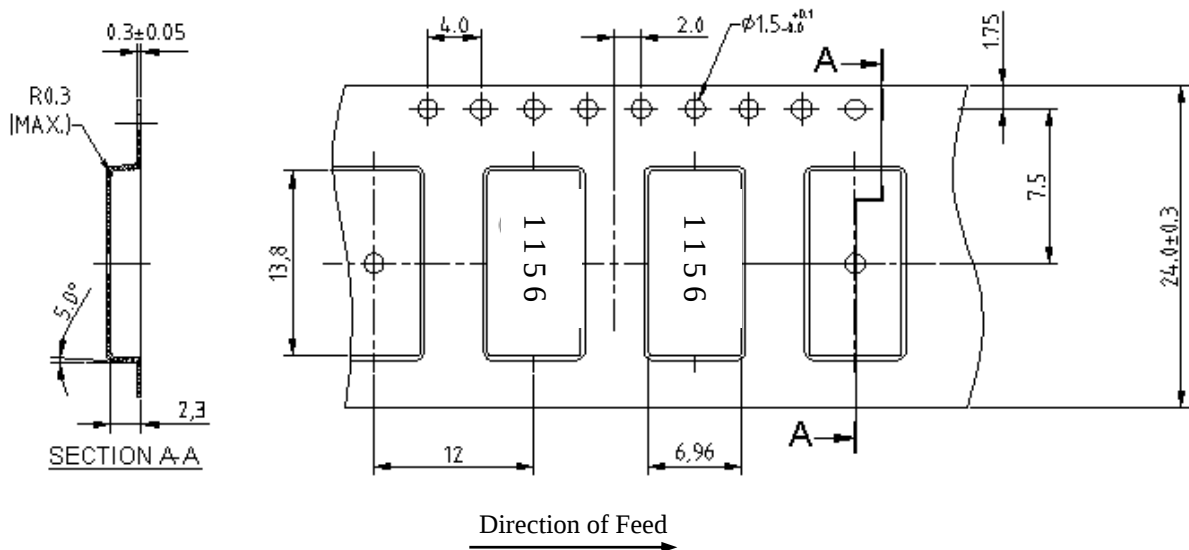
G. Package:

(1). REEL DIMENSION

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



(2). TAPE DIMENSION



H. Recommended Reflow Profile_:

