



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: 307.2 MHz 62MHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB1052A

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee

Approval by: _____ Francis Chen

Date: _____ 02 / 04 / 2012

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 307.2MHz 62MHz BW (SMD 7.0×5.0 mm)

MODEL NO.: TB1052A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -40°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level : 18 dBm
4. Maximum DC Voltage : 10V

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. Characteristics :

1. Ambient Temperature: 25 °

Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	307.2	-
Insertion Loss, IL	dB	-	16.8	18.5
1.0dB Band Width	MHz	62.0	65.0	-
3dB Band Width	MHz	65.0	67.8	-
Amplitude Ripple F _c +/-27MHz	dB	-	0.5	1.0
Group Delay Ripple F _c +/-27MHz	ns	-	29	100
Absolute Group Delay at F _c	us	-	0.4	1.0
Attenuation (Reference level from minimum Insertion loss)				
100MHz ~ 214MHz	dB	45	55	-
214MHz ~ 257.2MHz	dB	20	55	-
357.2MHz ~ 400MHz	dB	20	55	-
400MHz ~ 600MHz	dB	45	55	-
600MHz ~ 1000MHz	dB	40	65	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	200	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Narrow band Response:(span 400MHz)

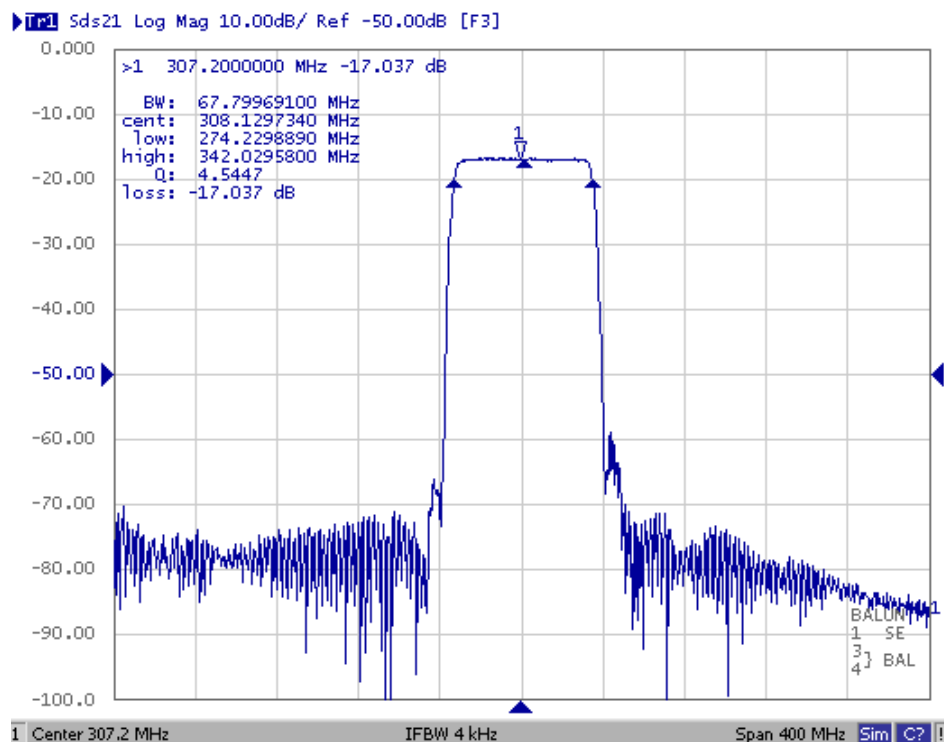


Fig1. Horizontal: 40MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Time Delay response:

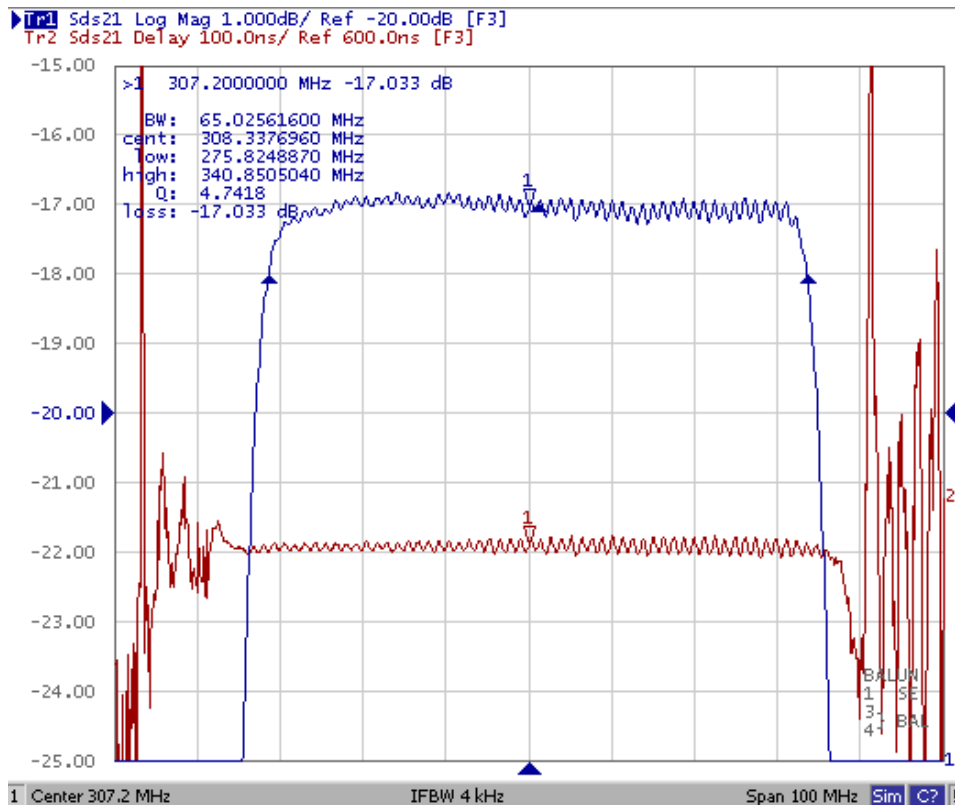
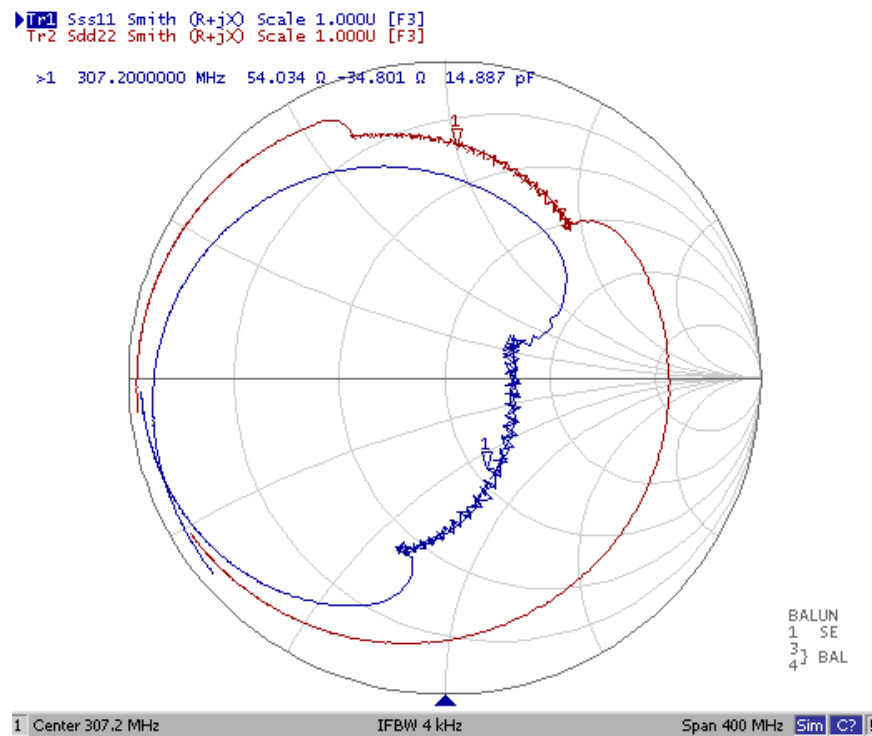


Fig2. Horizontal: 10MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

(3) Smith Chart:



(4) Wide band Response:

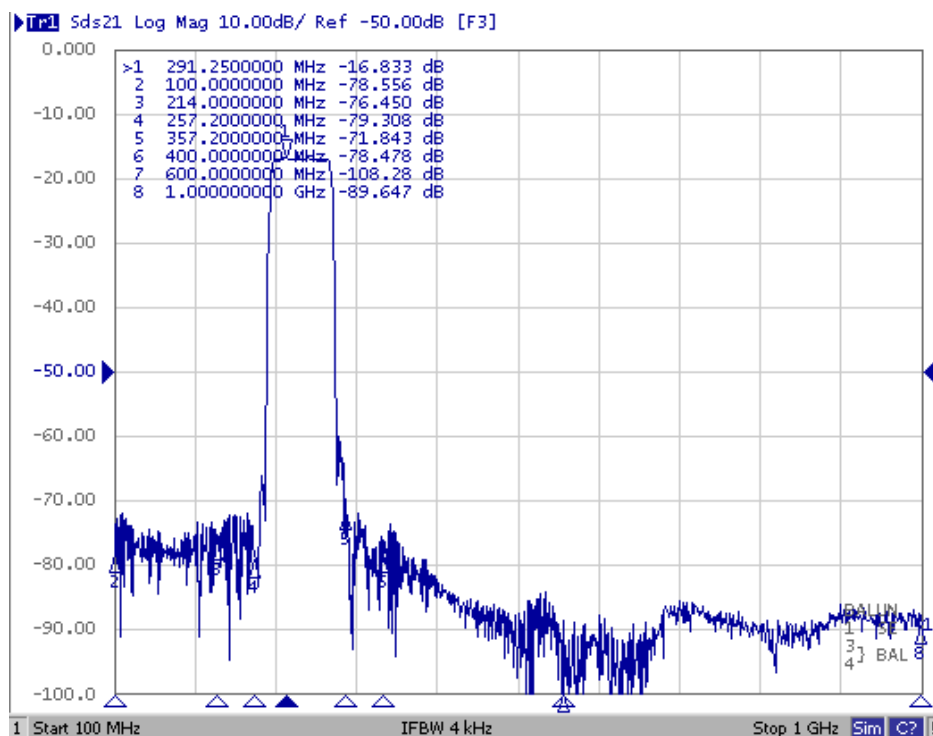
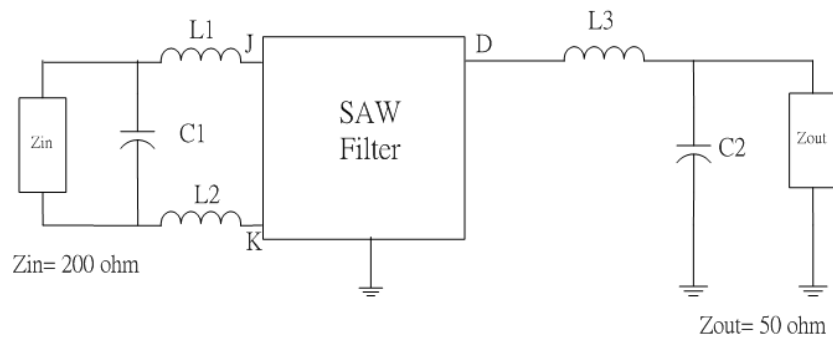


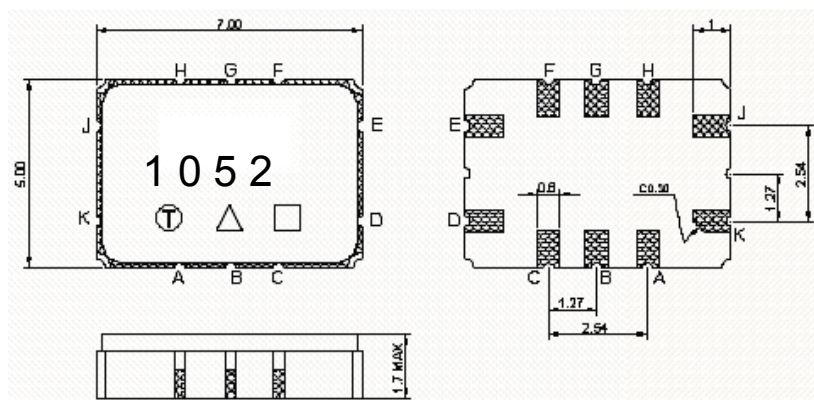
Fig4. Horizontal: 90MHz/Div Vertical: 10dB/Div

D. Matching Circuit:



$$L1=L2=15\text{nH} \quad L3=10\text{nH} \quad C1=4.7\text{pF} \quad C2=22\text{pF}$$

E. Outline Drawing:



Pin J –RF input

Pin K –RF balance input or to be ground

Pin D –RF output

Pin E –RF output ground

Pin A,B,C,F,G,H - Ground

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

Unit : mm

△ : Product / Year Code

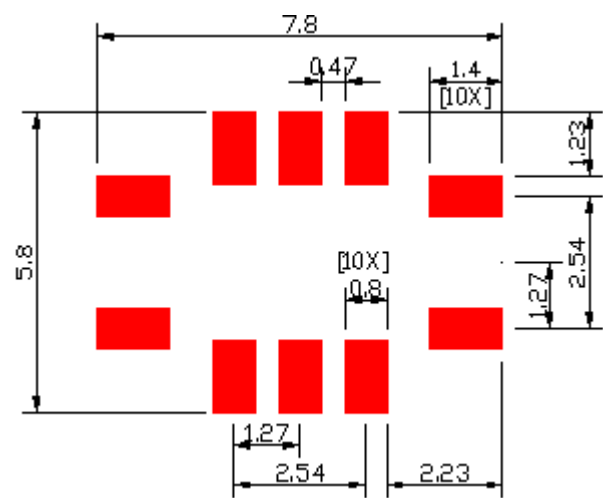
Product Code Table

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

Date Code Table

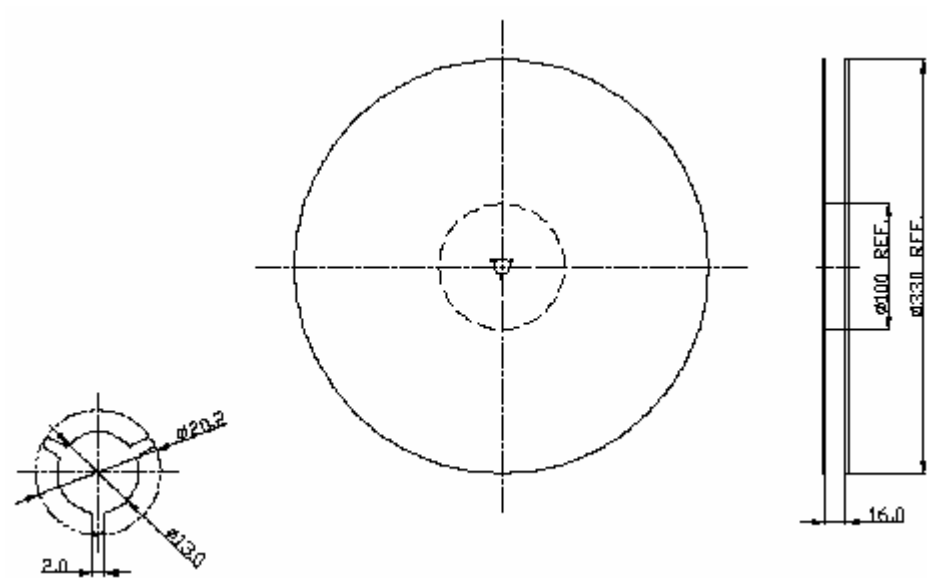
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

F. PCB Footprint:

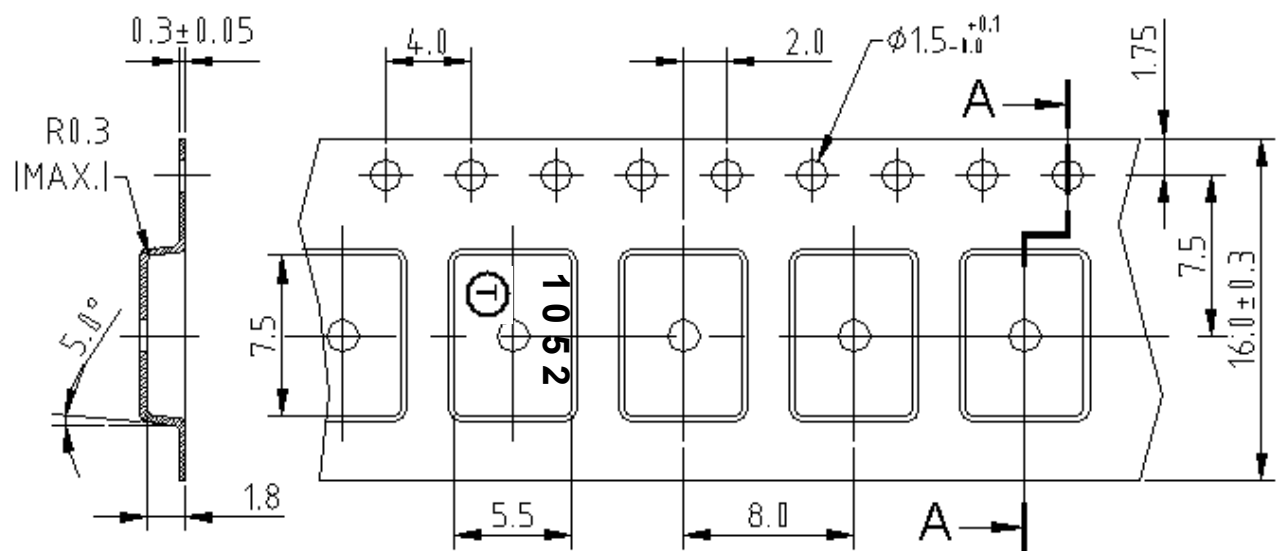


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

