



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: 161.8625 MHz 0.3MHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB1200A

Customer Parts No.: _____

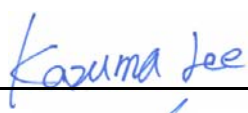
Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Bob Chau 

Date: _____ 10 / 06 / 2015

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.



TAI-SAW TECHNOLOGY CO., LTD.

No.3, Industrial 2nd Rd., Ping-Chen Industrial District, Taoyuan, Taiwan, R.O.C.

TEL: 886-3-4690038

FAX: 886-3-4697532

E-mail: tstsales3@mail.taisaw.com Web: www.taisaw.com

SAW Filter 161.8625MHz 0.3MHz BW (SMD 7×5 mm)

MODEL NO.: TB1200A

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 : 10 dBm
4. Maximum DC Voltage : 10V

RoHS Compliant
Lead free
Lead-free soldering

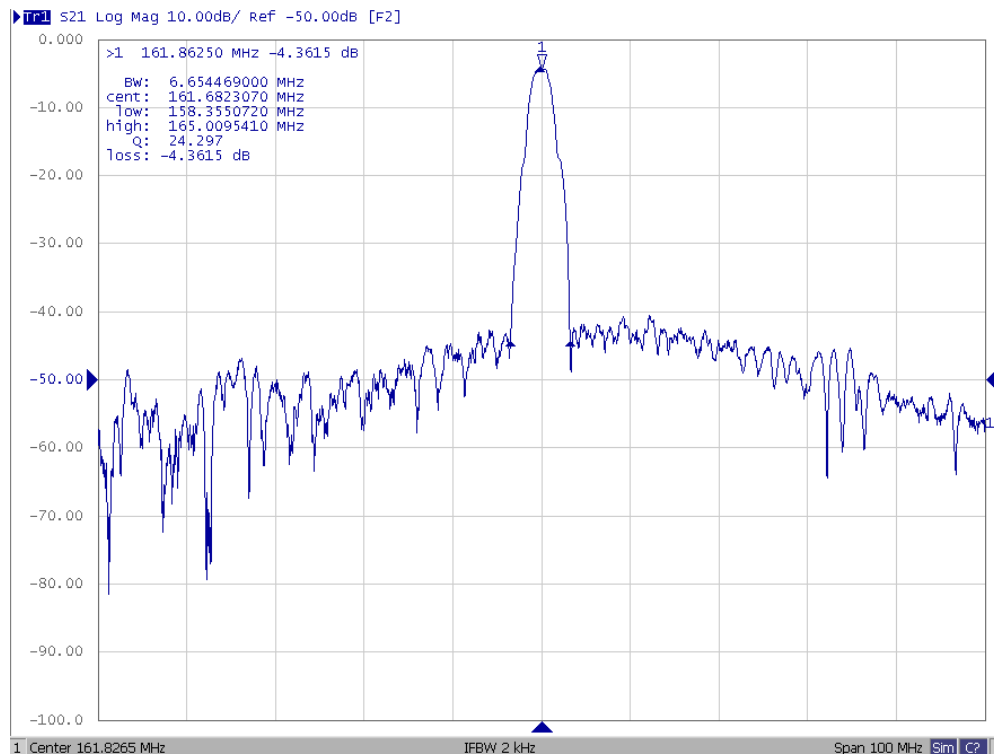
Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

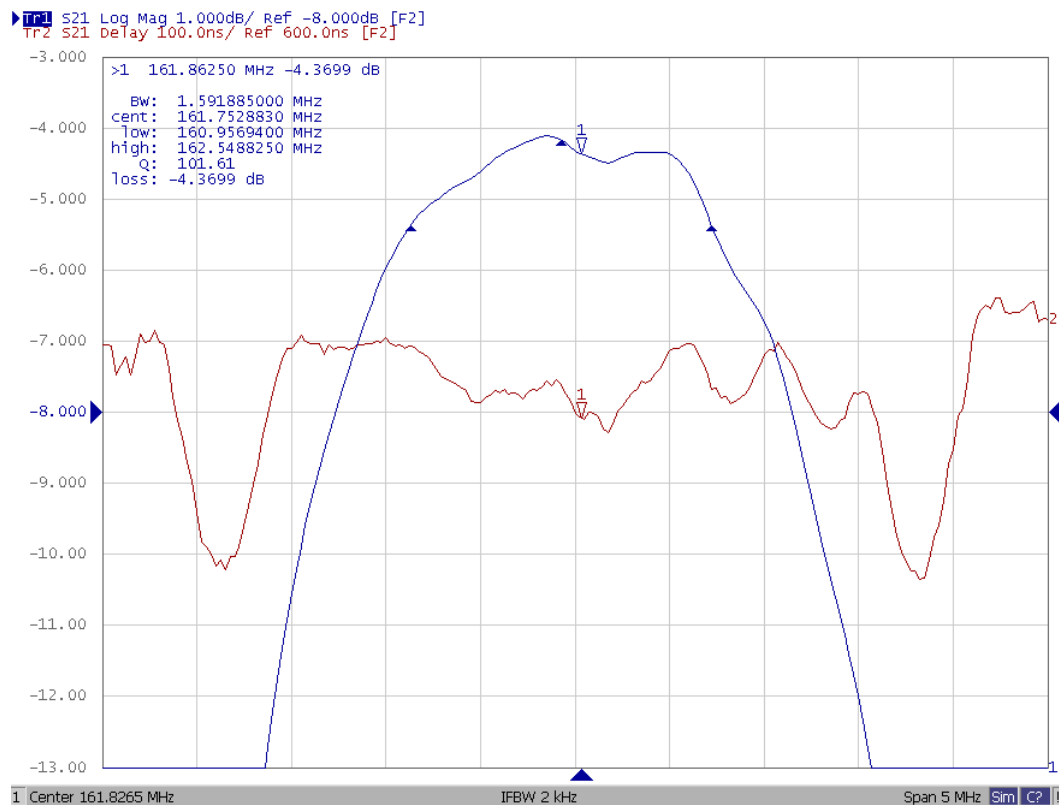
Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	161.8625	-
Insertion Loss, IL	dB	-	4.1	8
-1dB bandwidth	MHz	0.3	1.6	-
-3dB bandwidth	MHz	-	2.3	-
-40dB bandwidth	MHz	-	6.7	7
Passband Ripple (Fc+/- 150kHz)	dB	-	0.4	1.0
Group delay variation (Fc+/- 150kHz)	ns	-	110	500
Absolute Group delay	ns	-	600	-
Attenuation (Reference IL)				
150 MHz ~153 MHz	dB	30	40	
322 MHz ~328.65MHz	dB	35	60	
406.1 MHz ~410MHz	dB	35	60	
Fc+100MHz~Fc+900MHz	dB	35	60	
Temperature Coefficient	ppm/°C	-	-23	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. FREQUENCY CHARACTERISTICS:

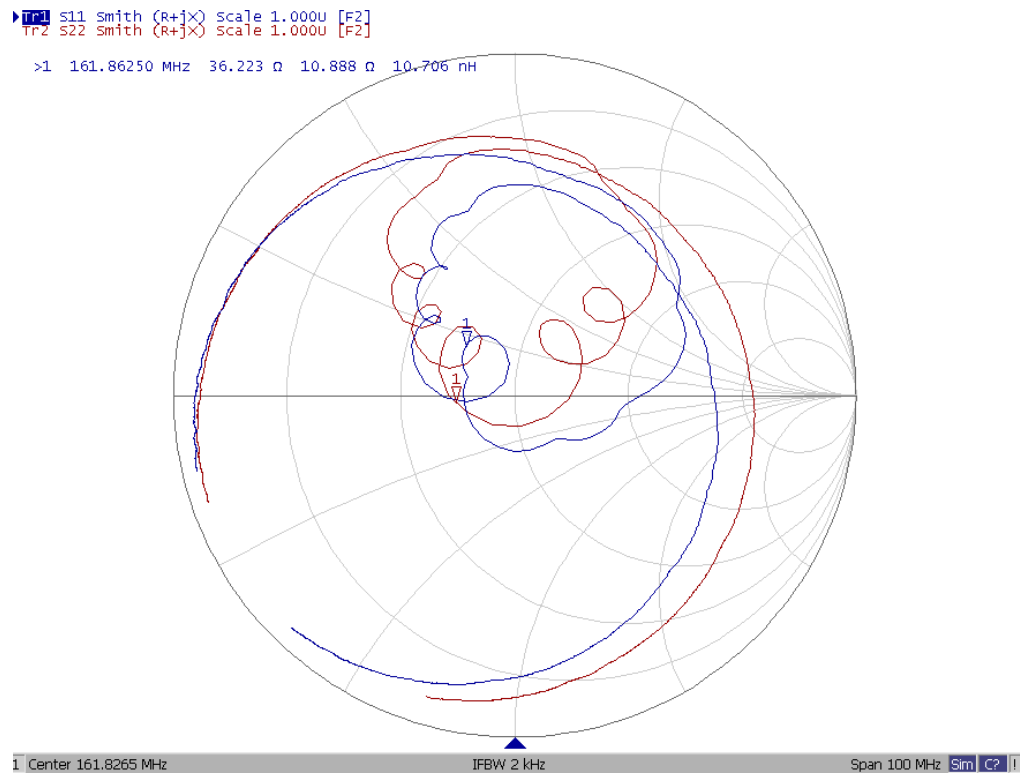
(1) Narrow Band Response:



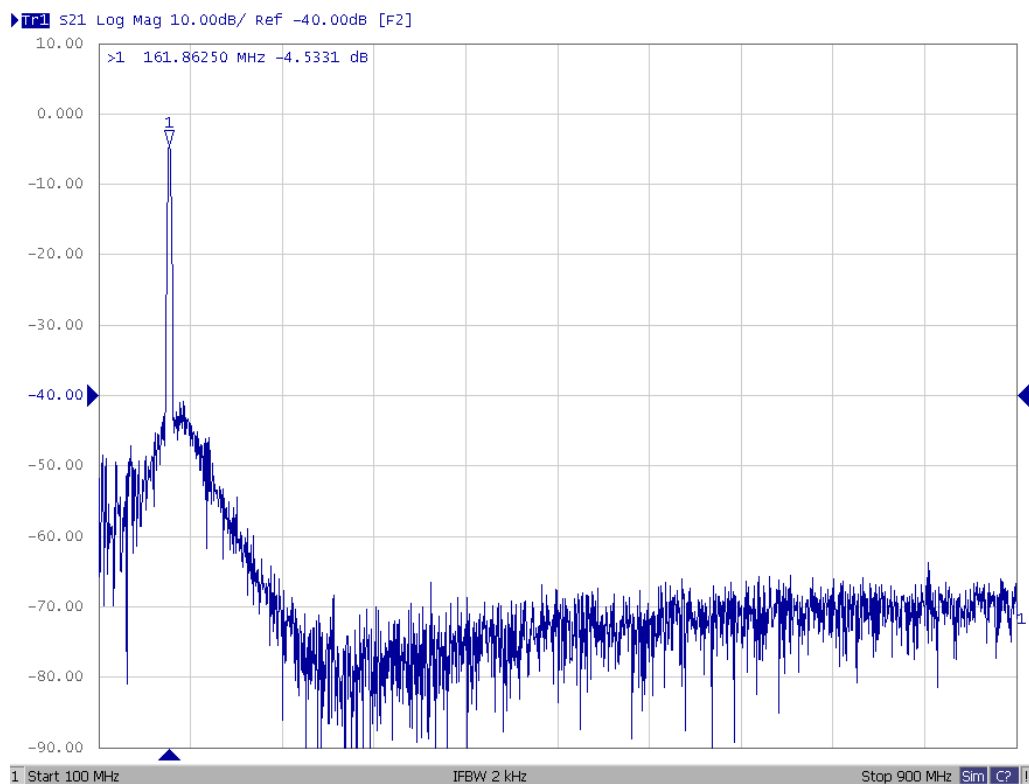
(2) Pass Band Response and Group Time Delay Response:



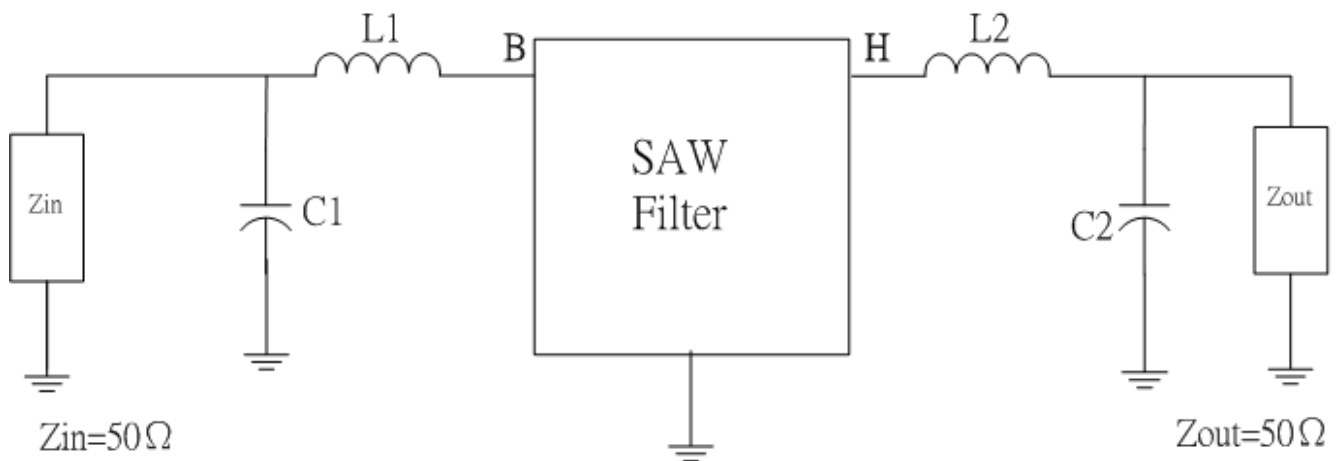
(3) Smith Chart:



(4) Wide Band Response:

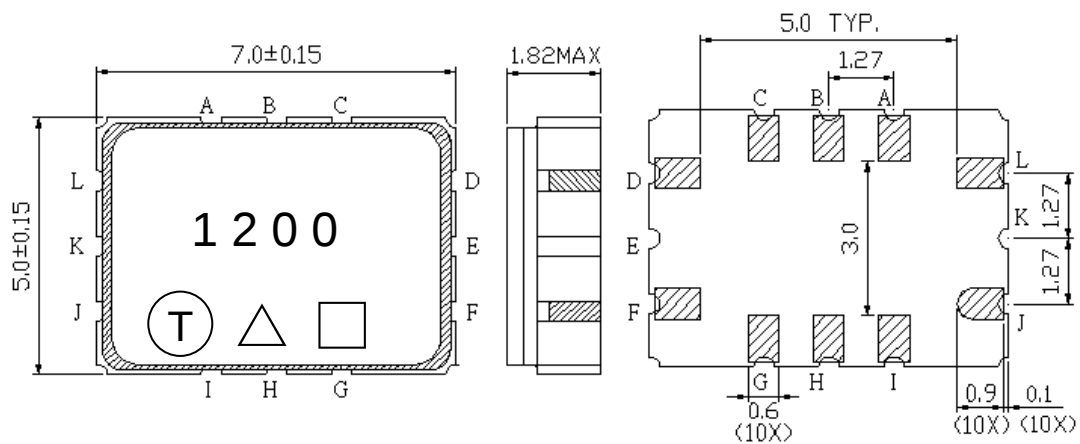


D. MATCHING CIRCUIT:



$$L1=47\text{nH} \quad L2=47\text{nH}+3\text{nH} \quad C1=39\text{pF} \quad C2=30\text{pF}$$

E. OUTLINE DRAWING:



Pin B—RF input

Pin H —RF output

Others - Ground

□ : Week Code

Unit : mm

△ : Product / Year Code

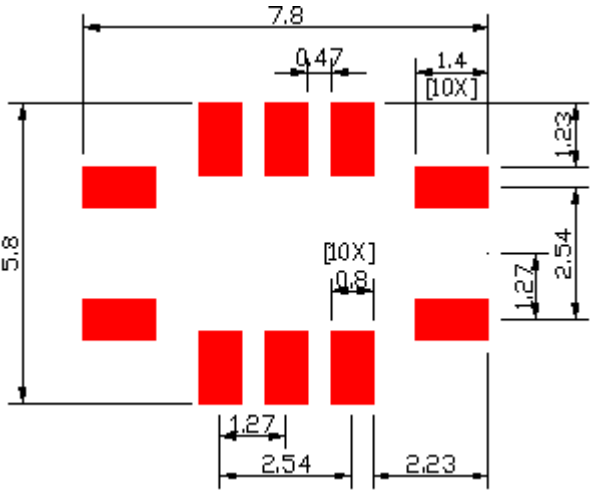
Product Code Table

Year	2013 2017	2014 2018	2015 2019	2016 2020
Product Code	B	b	<u>B</u>	<u>b</u>

Week 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

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

