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: 156.525MHz 25kHz BW SMD7.0X5.0mm IF SAW Filter

TST Parts No.:TB1198A

Customer Parts No.:_____

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

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SAW Filter 156.525MHz 25kHz BW (SMD 7.0×5.0mm)
MODEL NO.:TB1198A REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 5V
3. Operating Temperature: -30°C to 65°C
4. Storage Temperature: -40°C to 85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice

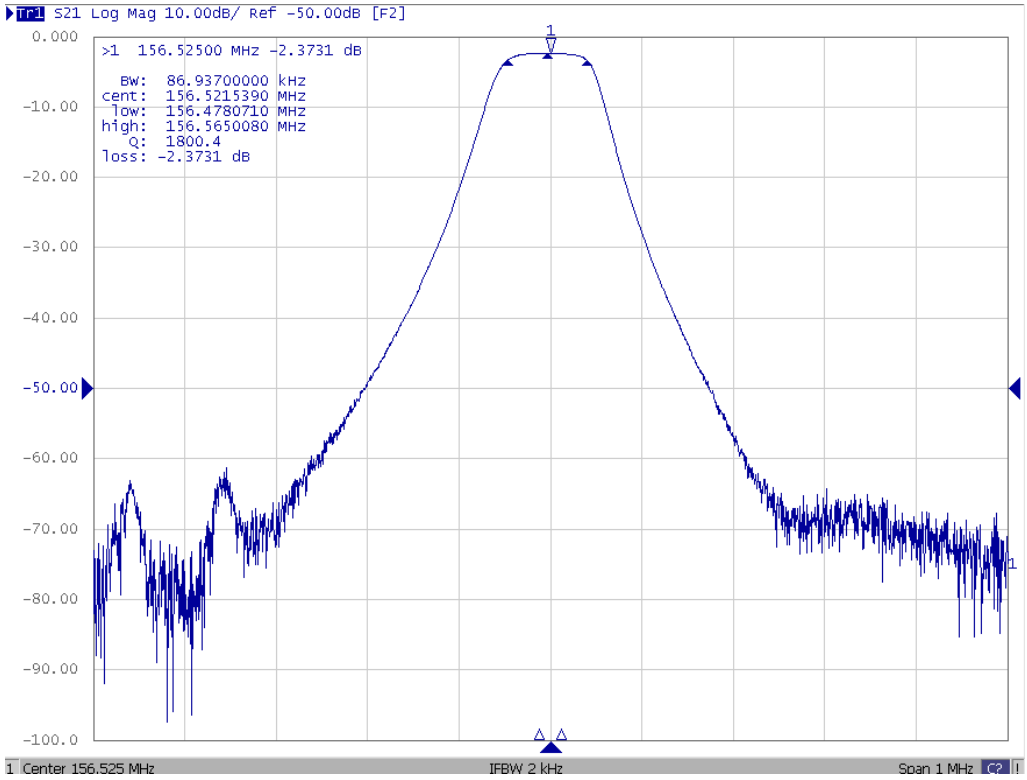
B. ELECTRICAL CHARACTERISTICS:

(Operating temperature: 25°C)

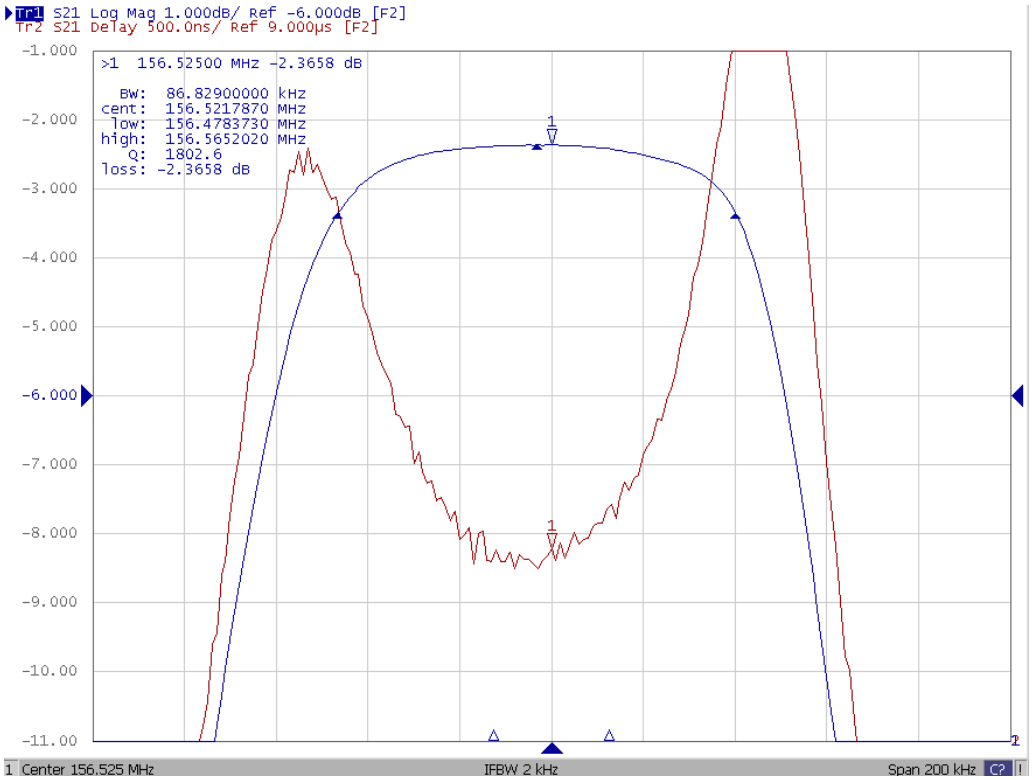
Item	Unit	Min.	Type.	Max.
Center frequency, **Fc**	MHz	-	156.525	-
Minimum Insertion Loss, (**Fc**±12.5KHz) **IL**	dB	-	2.8	6.0
Passband Ripple (**Fc**±12.5KHz)	dB	-	0.1	1.0
Group delay ripple (**Fc**±12.5KHz), **GD**	μs	-	0.3	2.5
Attenuation:(Reference level from Min IL)				
Fc - 10 ~ **Fc** - 2 MHz	dB	50	60	-
Fc - 2 ~ **Fc** - 1 MHz	dB	50	60	-
Fc - 1 ~ **Fc** - 0.35 MHz	dB	40	57	-
Fc - 0.35 ~ **Fc** - 0.1 MHz	dB	8	20	-
Fc + 0.1 ~ **Fc** + 0.35 MHz	dB	8	24	-
Fc + 0.35 ~ **Fc** + 1 MHz	dB	40	57	-
Fc + 1 ~ **Fc** + 2 MHz	dB	50	57	-
Fc + 2 ~ **Fc** + 10 MHz	dB	40	47	-

C. FREQUENCY CHARACTERISTICS:

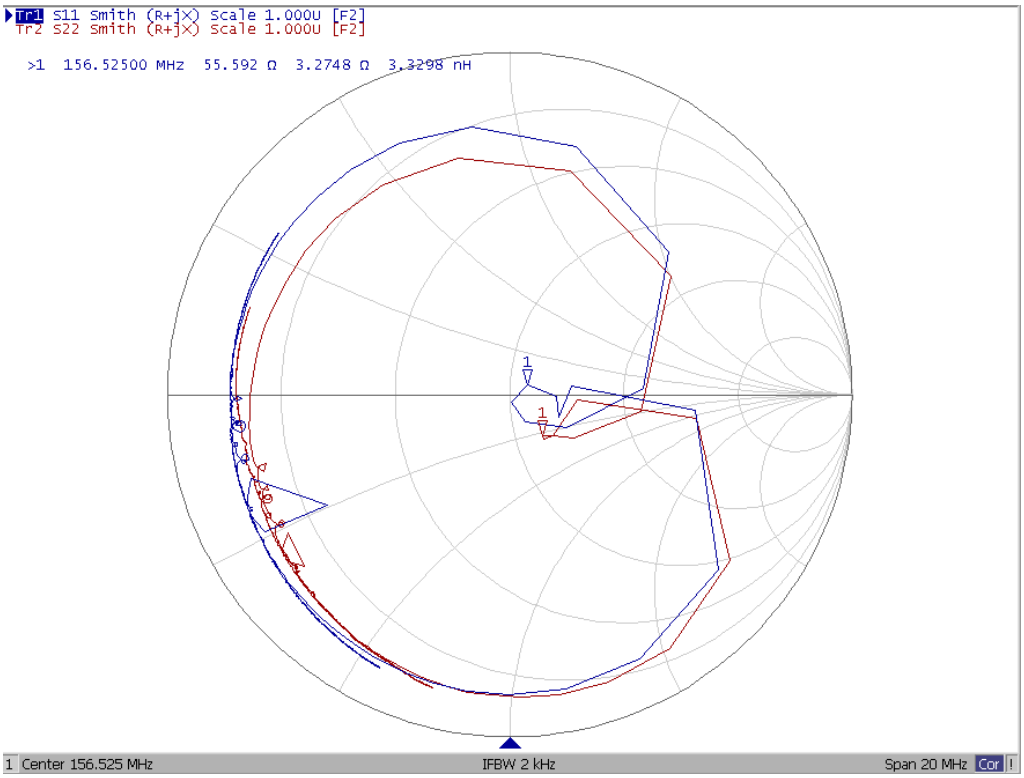
(1) Narrow band Response:



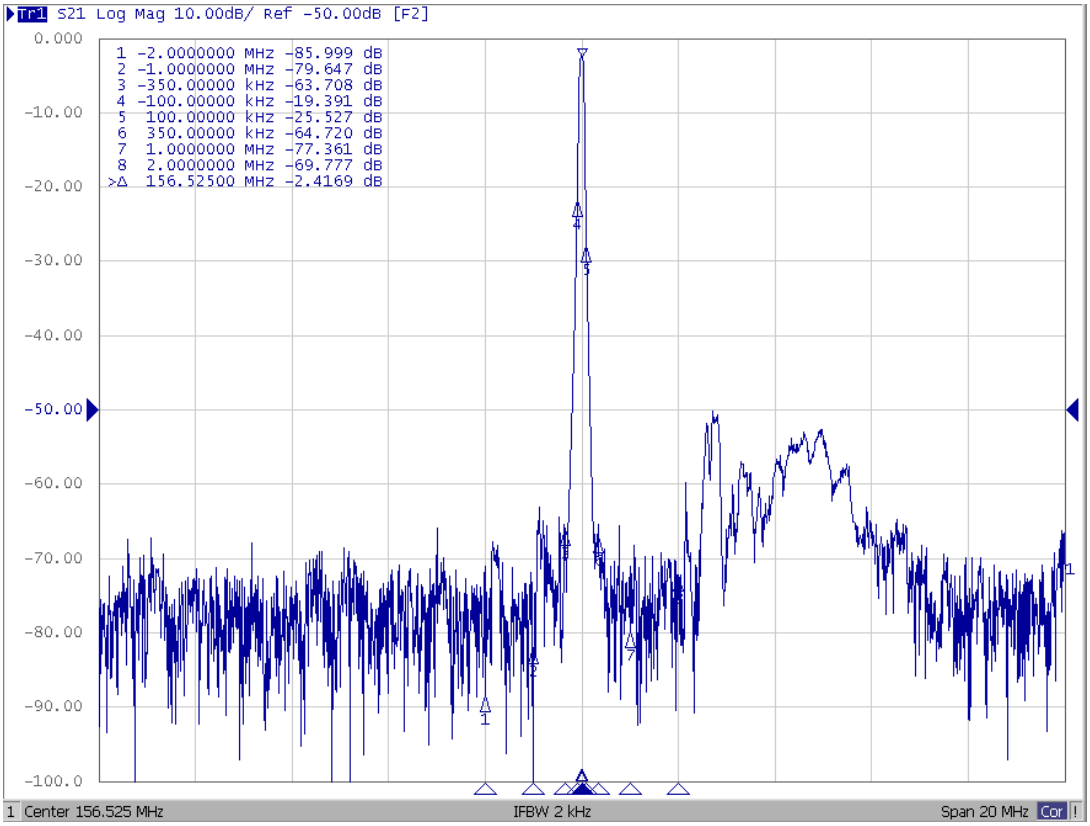
(2) Pass Band Response and Group Delay Response:



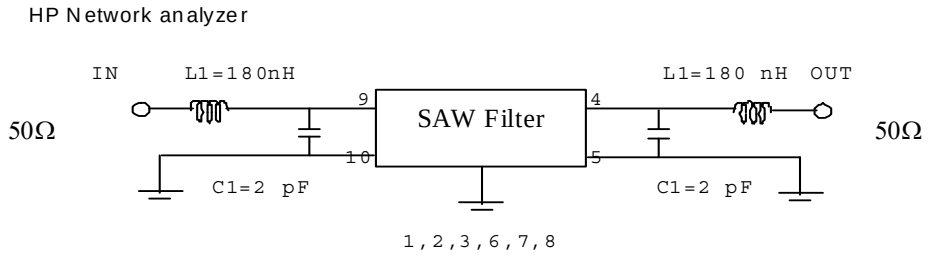
(3) Smith Chart:



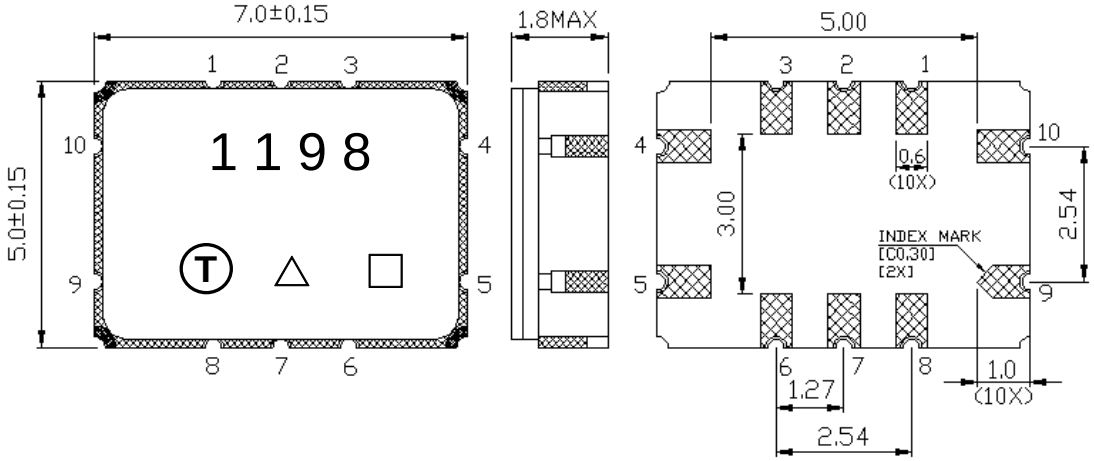
(4) Wide band Response:



D. MEASUREMENT CIRCUIT:
50 Ohm Test circuit (single-ended / single-ended)



E.OUTLINE DRAWING:



#9 : Input

#10 : Input Ground

#4 : Output

#5 : Output Ground

#1,2,3,6,7,8: Ground

□: Week Code

Unit: mm

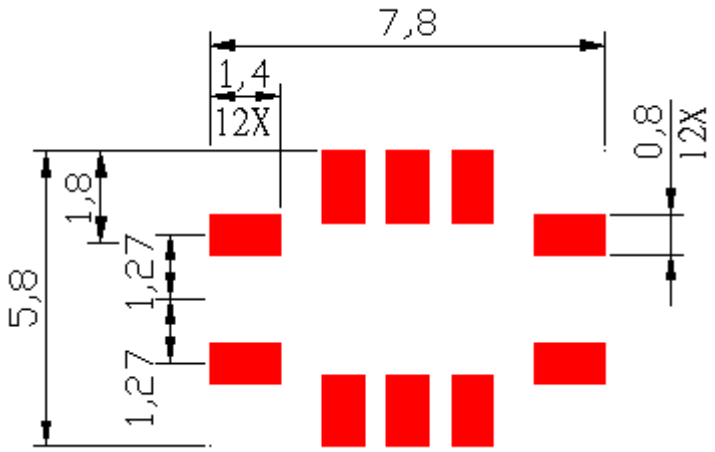
△ : Product / Year Code

Year	2013 2017	2014 2018	2015 2019	2016 2020
Product Code	B	b	B	b

Week Code Table

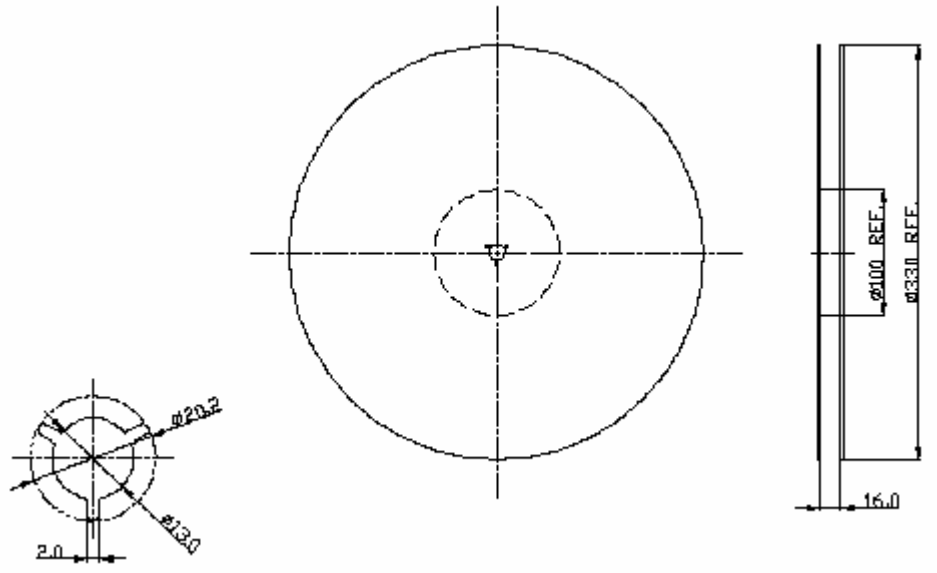
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

F. PCB FOOTPRINT:

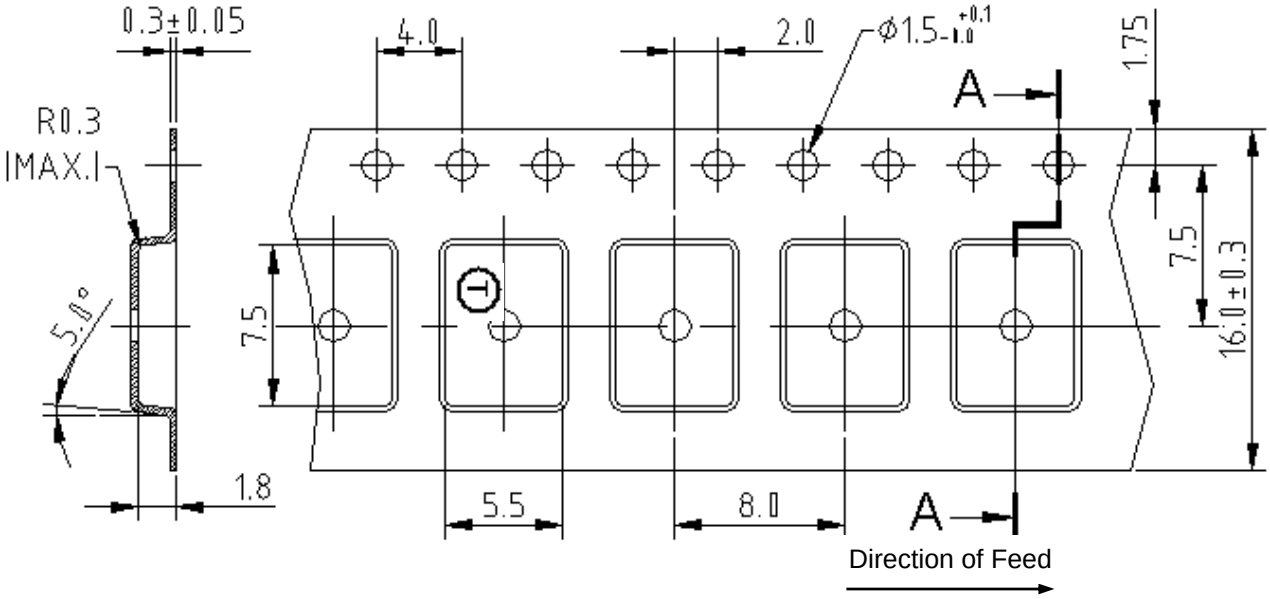


G. PACKING:

1. REEL DIMENSION (Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H.RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.