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 Name: 110.592 MHz 300kHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB1298A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Kazuma Lee Kazuma Lee

Approval by: Andy Yu Andy Yu

Date: 04 / 12 / 2018

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 110.592MHz 300kHz BW (SMD 7×5 mm)
MODEL NO.: TB1298A Rev No.1

A. MAXIMUM RATING:

1. Operating temperature range: -20℃ to 70℃
2. Storage temperature range: -40℃ to 85℃
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 3V
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant
Lead free
Lead-free soldering

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

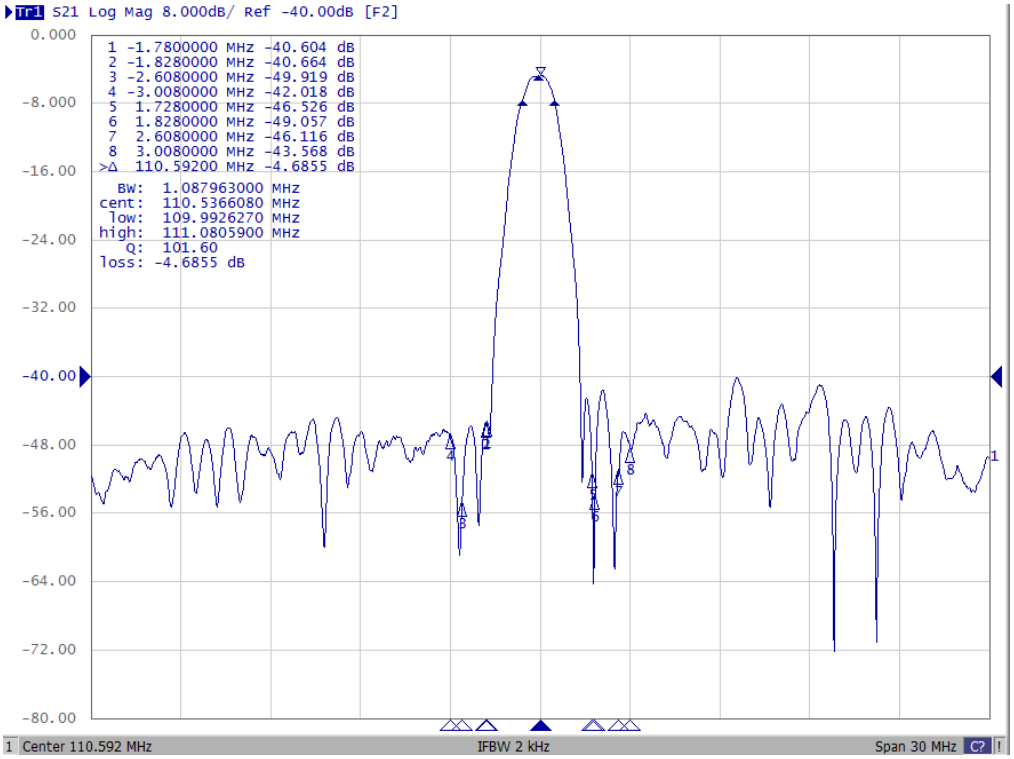
B. CHARACTERISTICS:

Ambient Temperature: 25°C

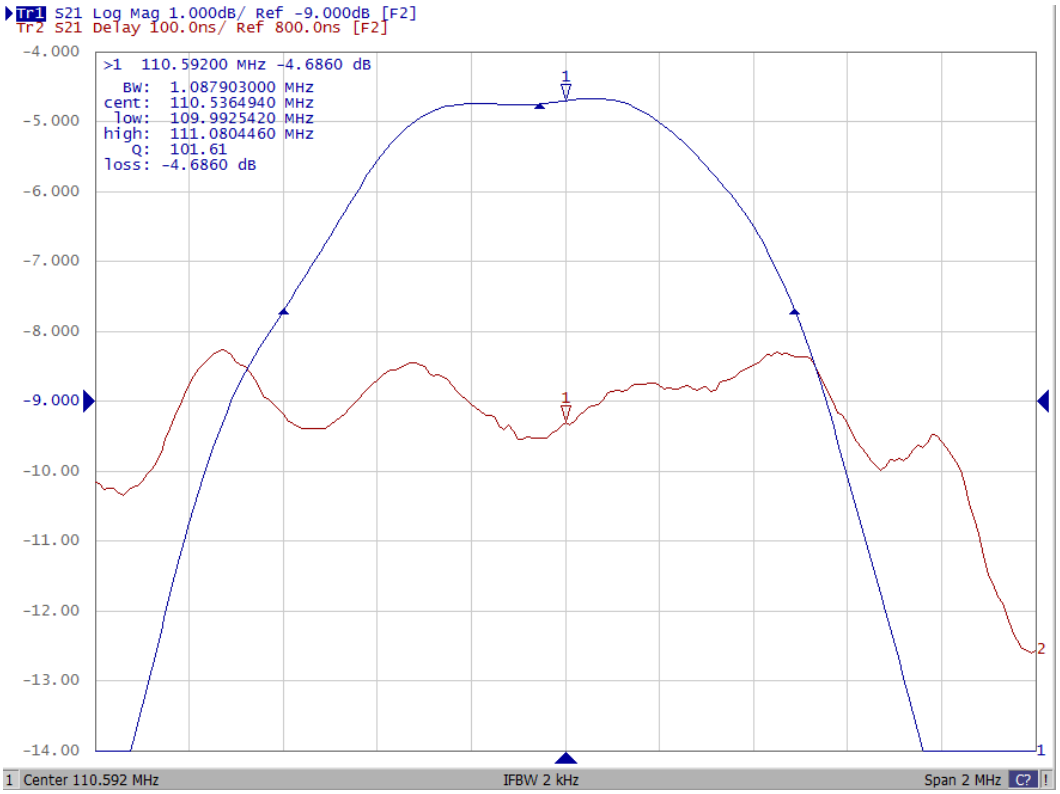
Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	110.592	-
Insertion Loss, IL	dB	-	4.5	5.5
-3dB bandwidth	MHz	0.3	1.0	-
Passband Ripple Fc+/- 0.15kHz	dB	-	0.2	3.0
Group Delay Variation Fc+/- 0.15kHz	ns	-	60	700
Input / Output Return Loss	dB	10	13	-
Attenuation:(Reference level from Min IL)				
Fc ± 1.728 MHz ~ Fc ± 1.828 MHz	dB	30	40	-
Fc ± 1.828 MHz ~ Fc ± 2.608 MHz	dB	35	37	-
Fc ± 2.608 MHz ~ Fc ± 3.008 MHz	dB	38	41	-
Fc ± 3.008 MHz ~ Fc ± 15 MHz	dB	30	35	-
Temperature Coefficient	ppm/℃	-	-23	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. FREQUENCY CHARACTERISTICS:

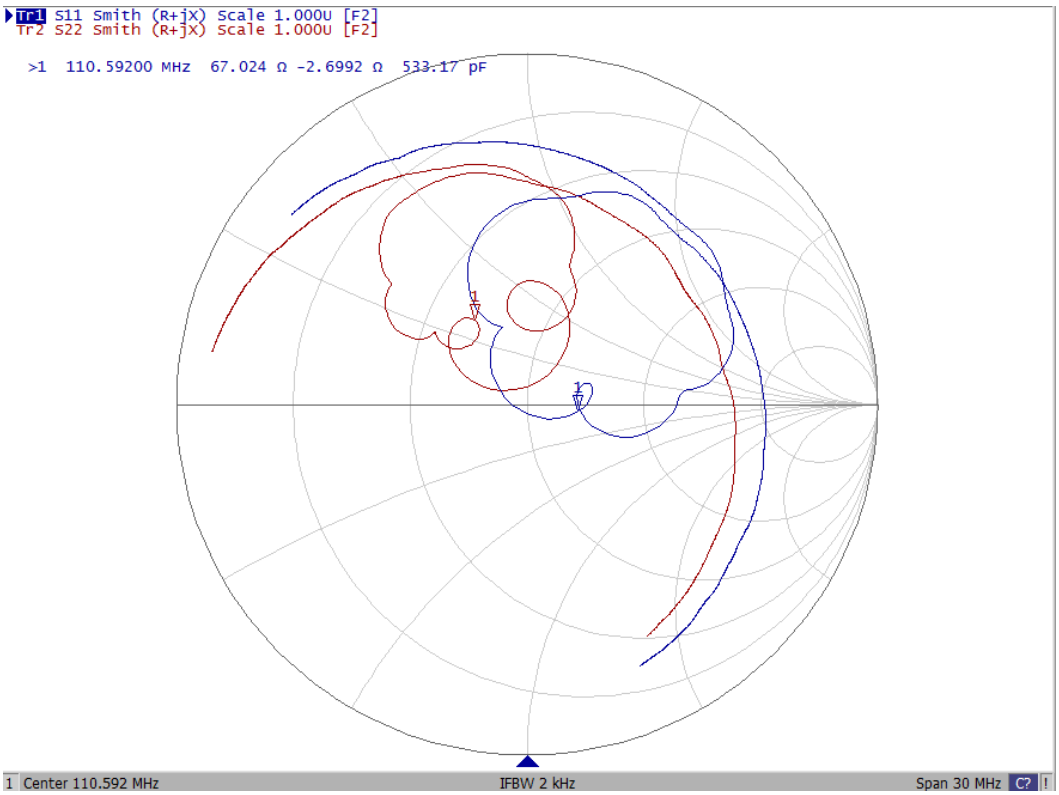
(1) Wide Band Response:



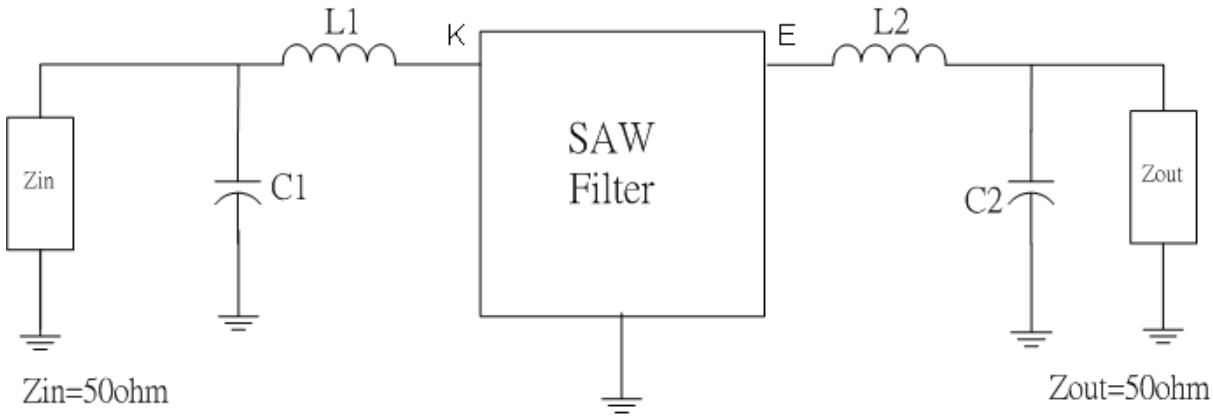
(2) Narrow Band Response and Group Delay Response:



(3) Impedance:

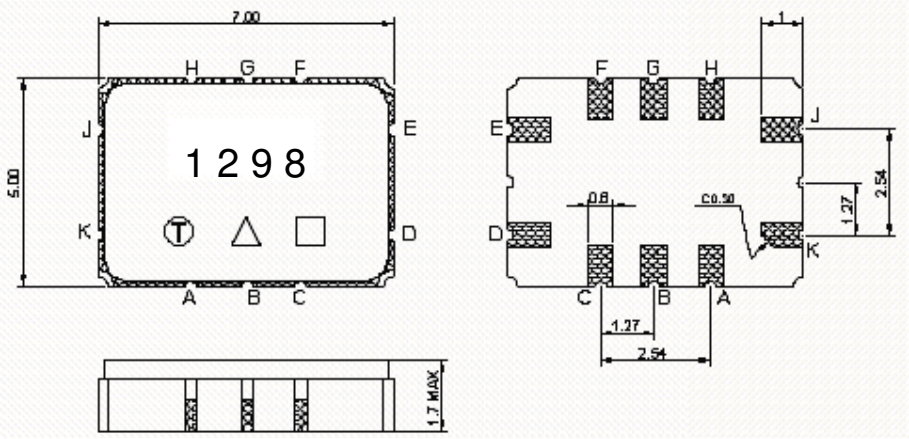


D. MATCHING CIRCUIT:



L1=56nH L2=68nH C1=56pF C2=68pF

E. OUTLINE DRAWING:



Pin K –RF input

Pin J –RF input ground

Pin E –RF output

Pin D –RF output ground

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

□ : Week Code

Unit: mm

△ : Product / Year Code

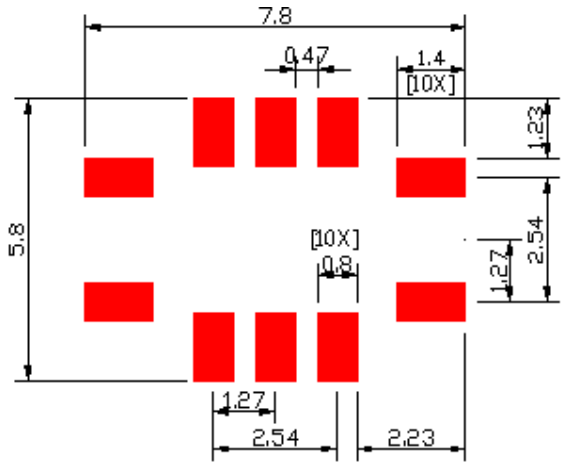
Product Code Table

Year	2017 2021	2018 2022	2019 2023	2020 2024
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

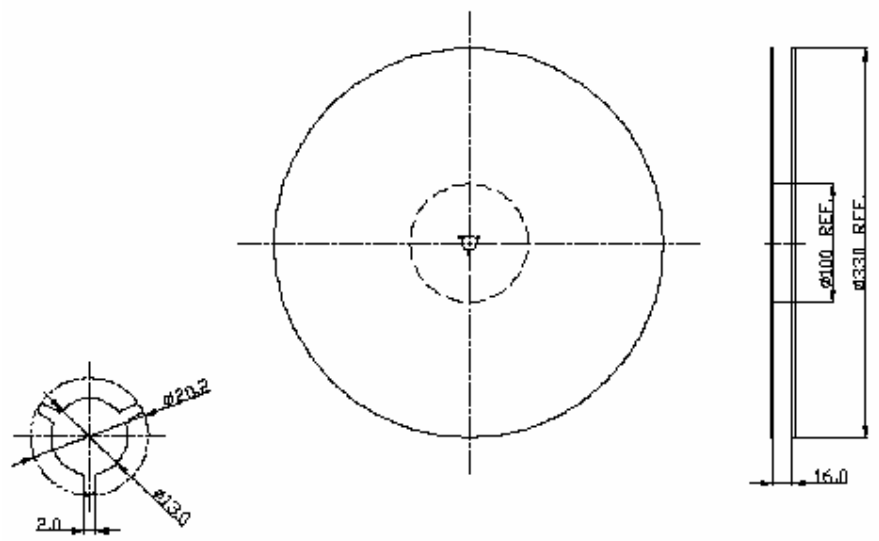
F. PCB FOOTPRINT:



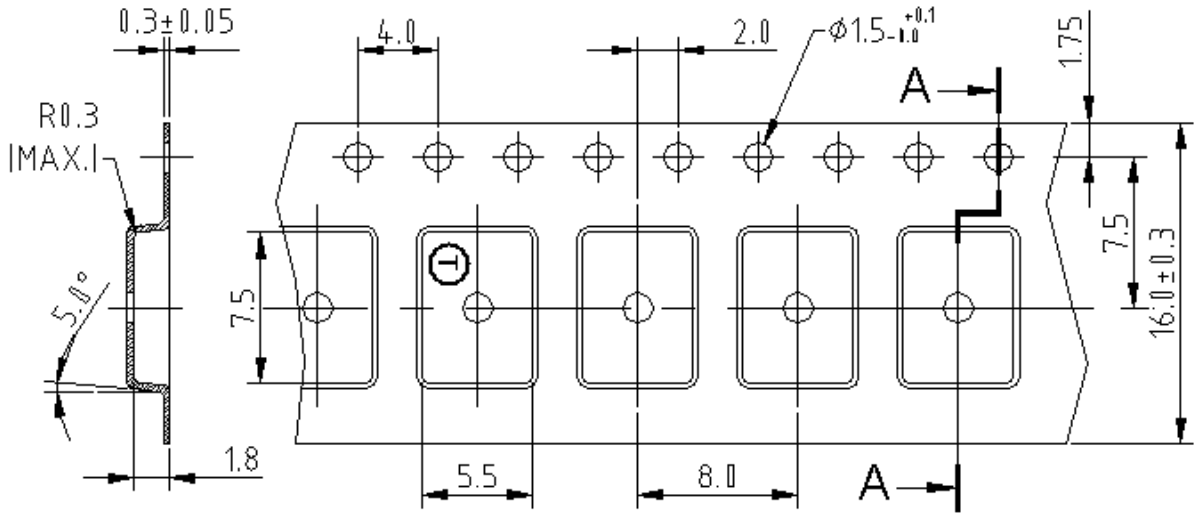
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity and FR-75M03 for MSL)



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.