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: 37.8 MHz 5.9MHz BW SMD 13.3 x 6.5 mm SAW IF Filter

TST Parts No.: TB1045A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Ava Wang Ava Wang

Approved by:_____ Kazuma Lee Kazuma Lee

Date:_____ 2022/03/18

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 37.8MHz 5.9MHz BW (SMD 13.3×6.5 mm)

MODEL NO.: TB1045A REV. NO.2.0

A. MAXIMUM RATING:

1. Operating temperature range: -10°C to60°C
2. Storage temperature range: -40°C to 80°C
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V
5. Moisture Sensitivity Level: Level 1(MSL1)

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

B. CHARACTERISTICS :

Item	Unit	Min.	Type.	Max.
Center frequency, **Fc**	MHz	-	37.8	-
Insertion Loss, **IL**	dB	-	18.5	20.0
1dB Band Width	MHz	-	5.8	-
40dB Band Width	MHz	-	9.3	10.5
Amplitude Ripple Fc+/-2.5MHz	dB	-	0.6	1.0
Attenuation (Reference level from typical Insertion loss)				
Fc+/-10.5MHz ~ Fc+/-14MHz	dB	40	45	
Fc+/-14MHz ~ Fc+/-20MHz	dB	45	50	
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. FREQUENCY CHARACTERISTICS :

(1) Wide band Response:(span 60MHz)

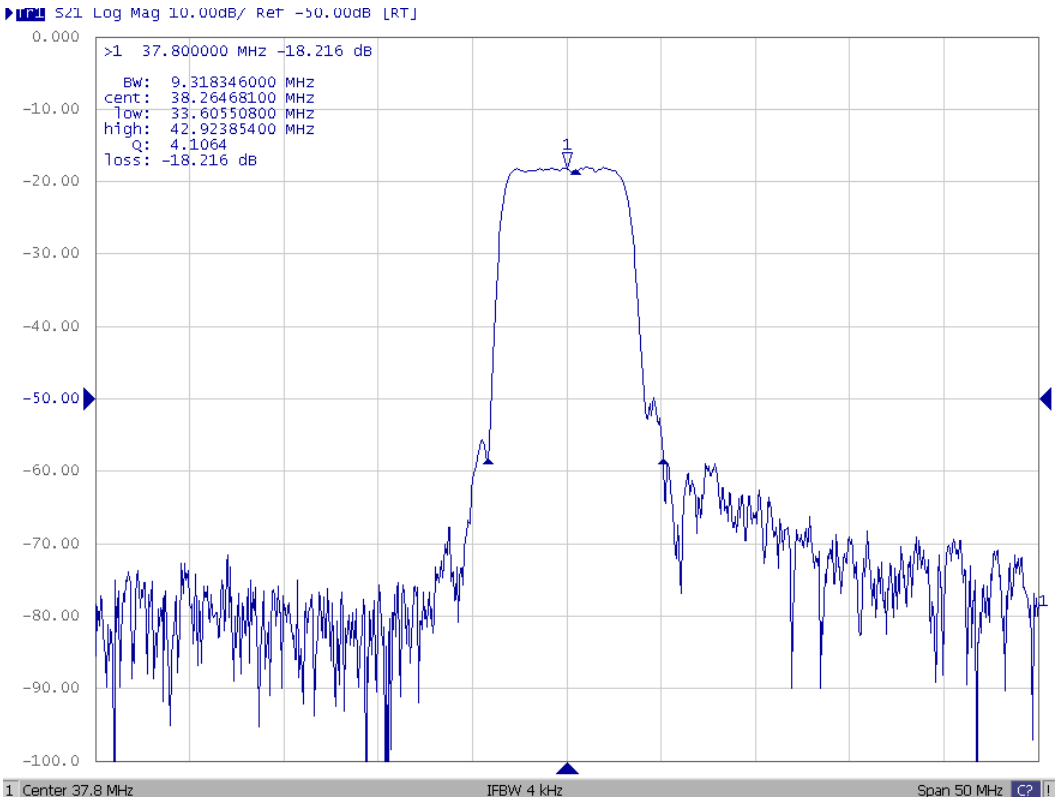


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

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

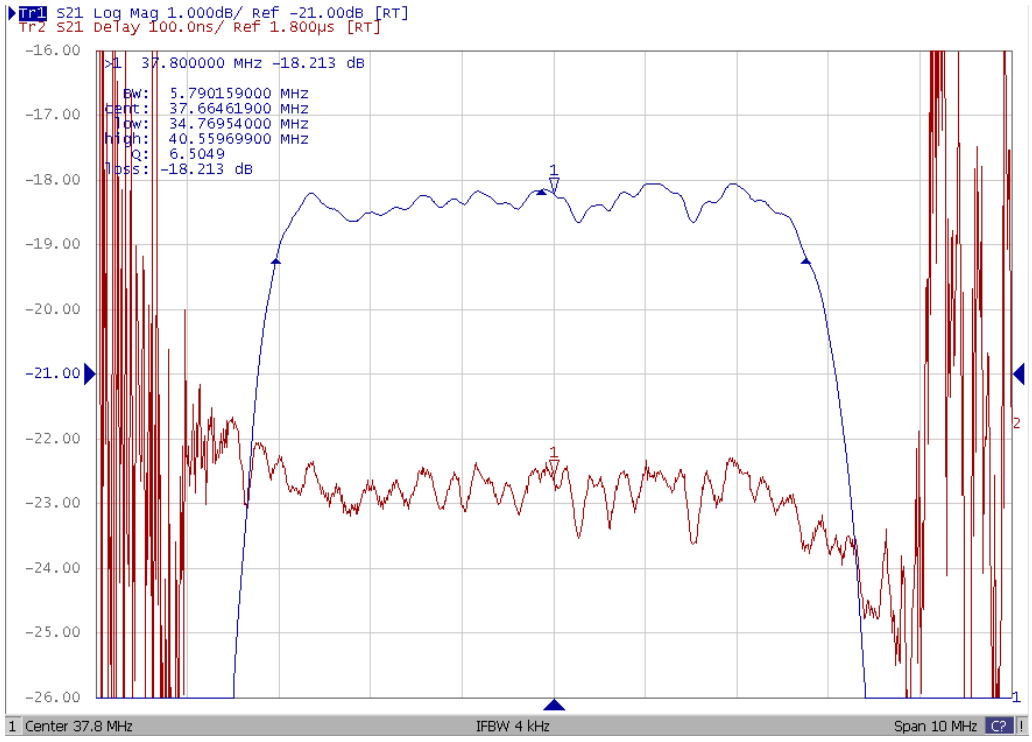
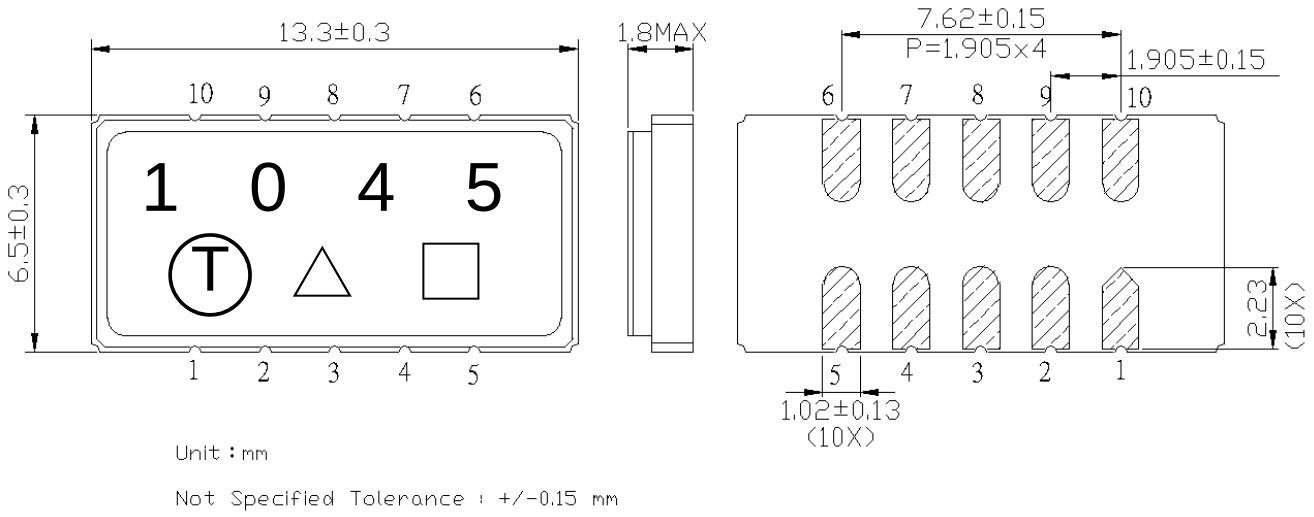


Fig2. Horizontal: 1.0MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

D. OUTLINE DRAWING:



#1: Input

#10 : Input Ground

#6 : Output

#5 : Output Ground

#2,3,4,7,8,9: Ground

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

Unit: mm

△ : Product / Year Code

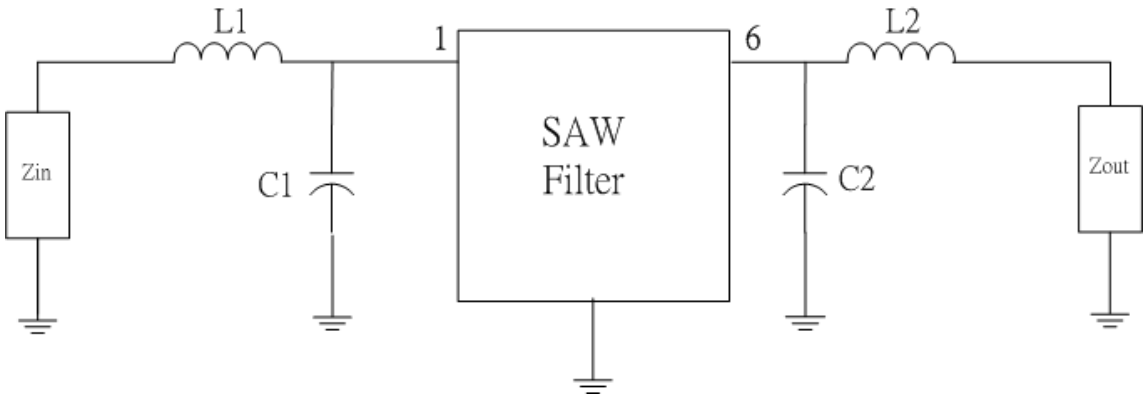
Product Code Table- 4year cycle

Year	2021 2025	2022 2026	2023 2027	2024 2028
Product Code	B	b	B	b

Week Code Table

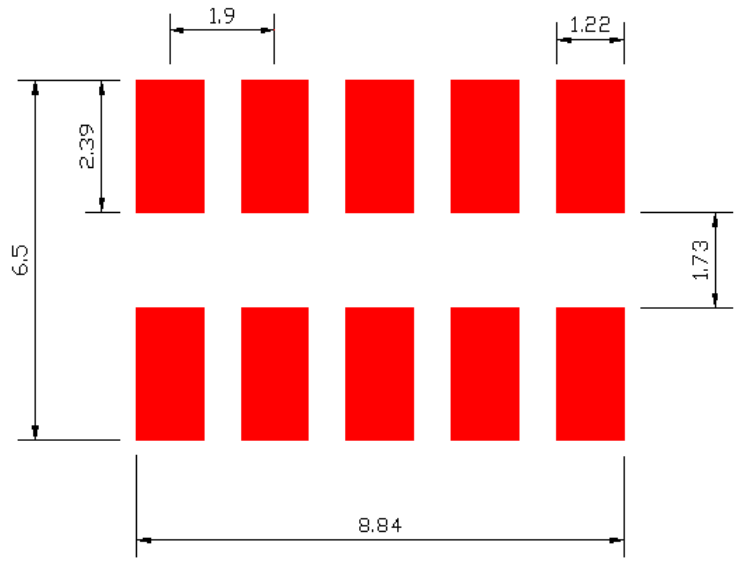
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	**WK15**	**WK16**	**WK17**	**WK18**	**WK19**	**WK20**	**WK21**	**WK22**	**WK23**	**WK24**	**WK25**	**WK26**
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	**WK28**	**WK29**	**WK30**	**WK31**	**WK32**	**WK33**	**WK34**	**WK35**	**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

E. MATCHING CIRCUIT:



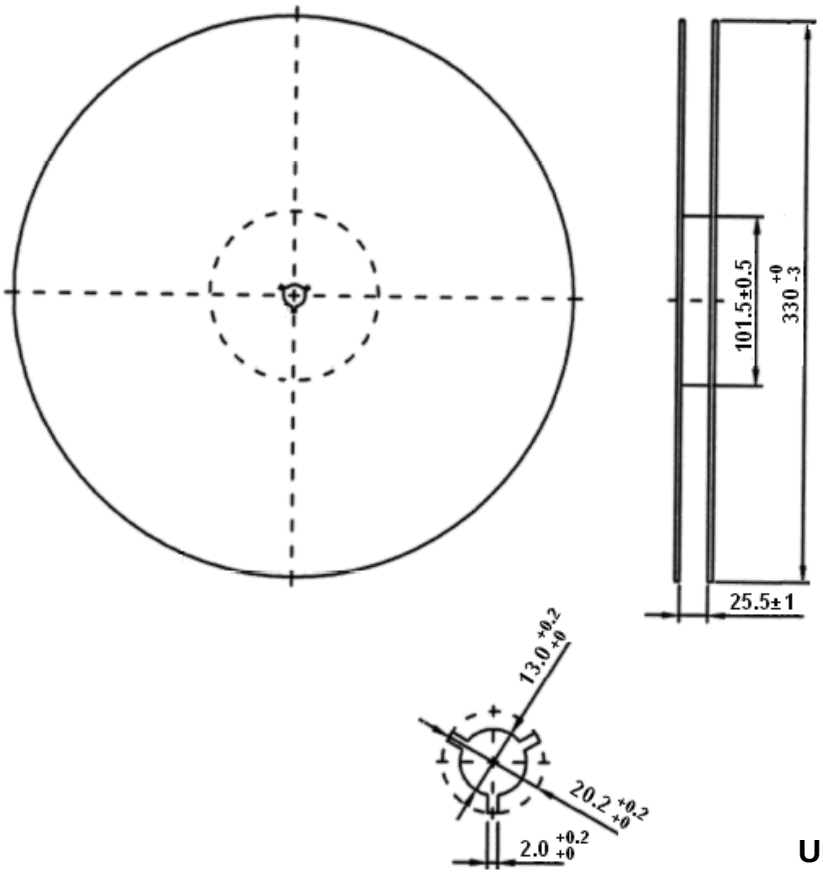
L1=680nH L2=82nH C1=4.7pF C2=4.7pF

F. PCB FOOTPRINT:



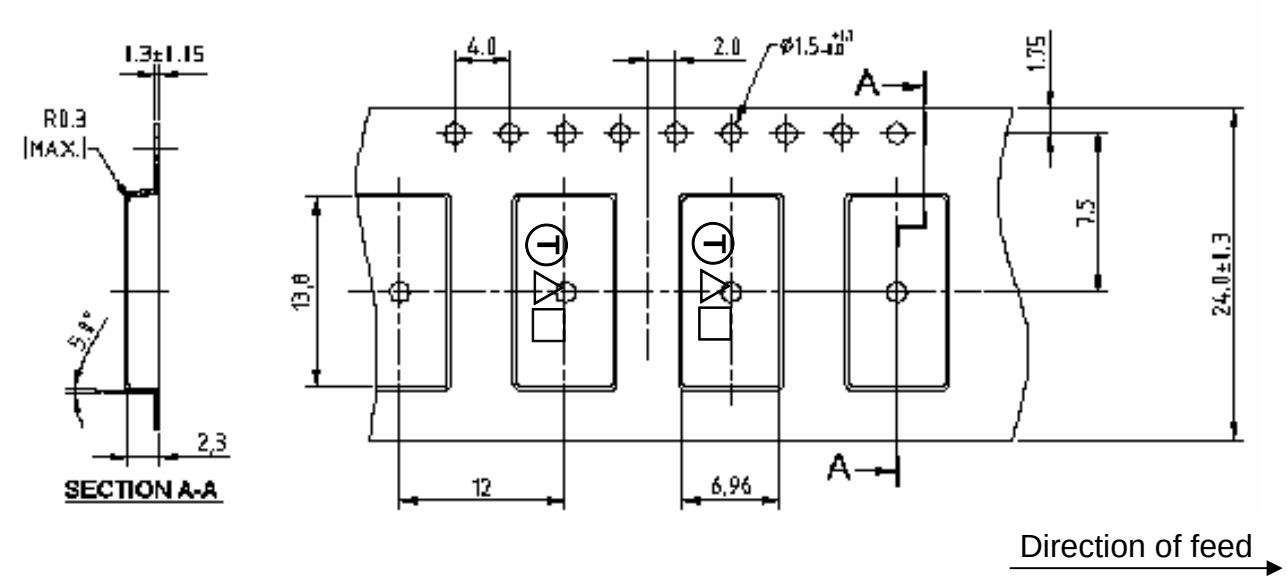
G. PACKING:

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



Unit: mm

2. 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.