



# TAI-SAW TECHNOLOGY CO., LTD.

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

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## Product Specifications Approval Sheet

Product Description: 739 MHz 78MHz BW SMD 5.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB1125A

Customer Parts No.: \_\_\_\_\_

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: \_\_\_\_\_ Kazuma Lee 

Approval by: \_\_\_\_\_ Bob Chau 

Date: \_\_\_\_\_ 01 / 07 / 2014

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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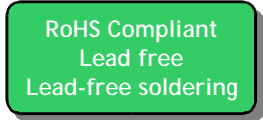
SAW Filter 739MHz 78MHz BW (SMD 5.0x5.0 mm)

MODEL NO.: TB1125A

REV. NO.1

## A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 60°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V



Electrostatic Sensitive Device

## B. Characteristics :

Item	Unit	Min.	Type.	Max.
Center frequency, <b>Fc</b>	MHz	-	739	-
Insertion Loss, <b>IL</b>	dB	-	17.0	18.5
-1dB bandwidth	MHz	78	85	-
Passband Ripple Fc+/- 39MHz	dB	-	0.75	1.00
Attenuation:(Reference level from Min IL)				
10MHz ~ 604MHz	dB	40	50	-
604MHz ~ 676MHz	dB	40	48	-
676MHz ~ 682MHz	dB	20	44	-
804MHz ~ 814MHz	dB	15	42	-
814MHz ~ 879MHz	dB	33	40	-
879MHz ~ 1120MHz	dB	40	50	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

### C. Frequency Characteristics :

#### (1) Wide band Response:(span 600MHz)

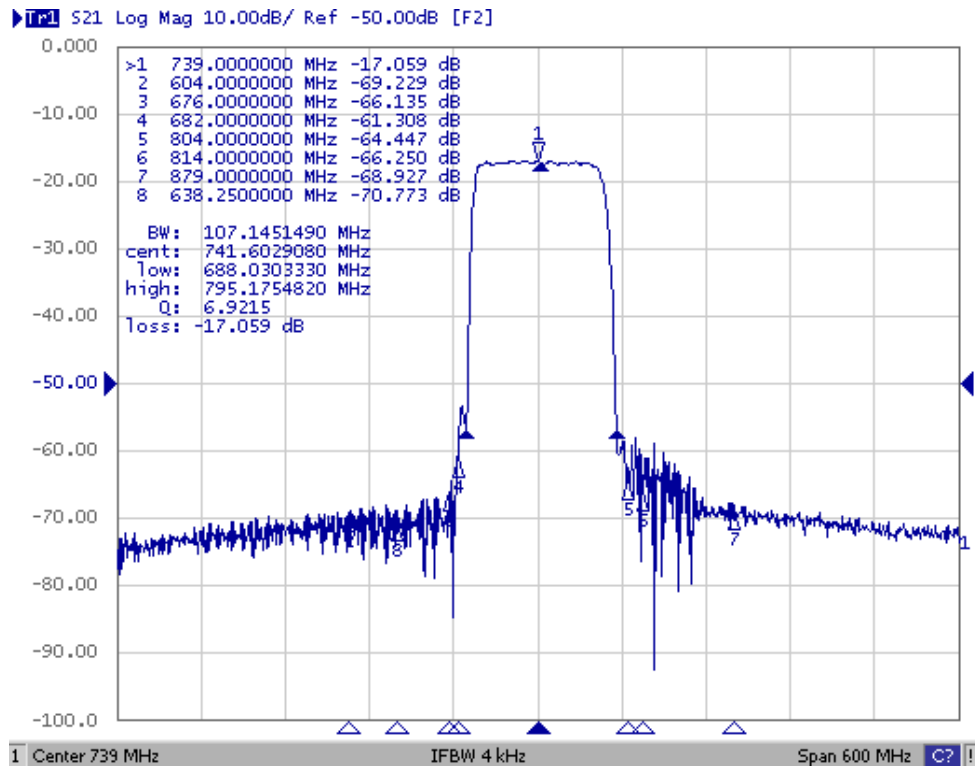


Fig1. Horizontal: 60MHz/Div Vertical: 10dB/Div

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

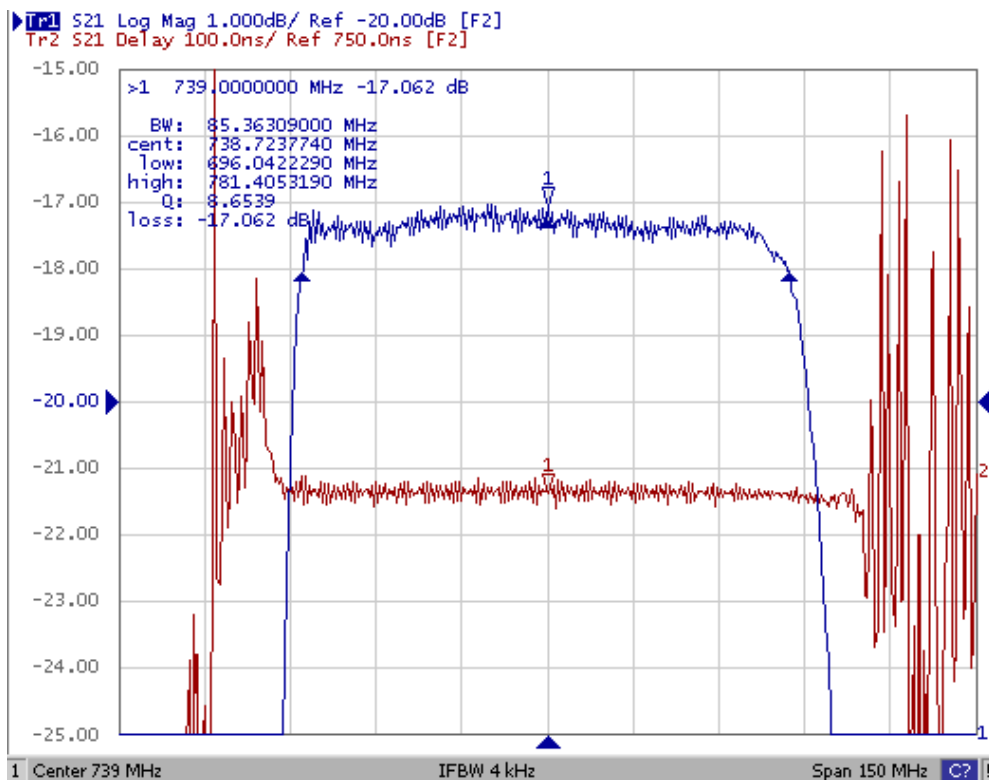
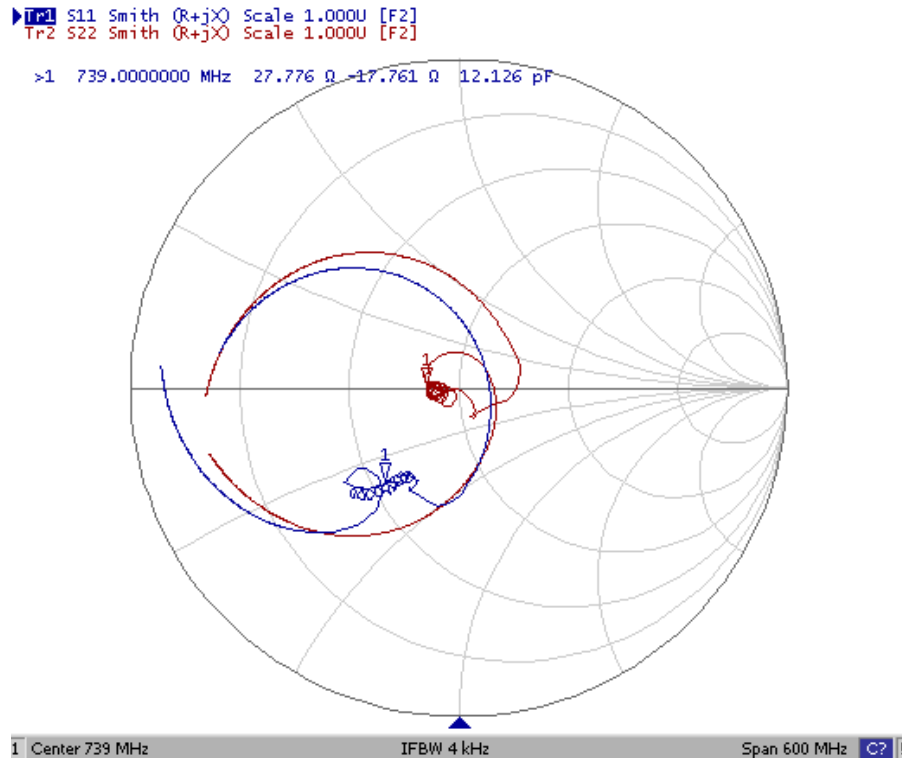
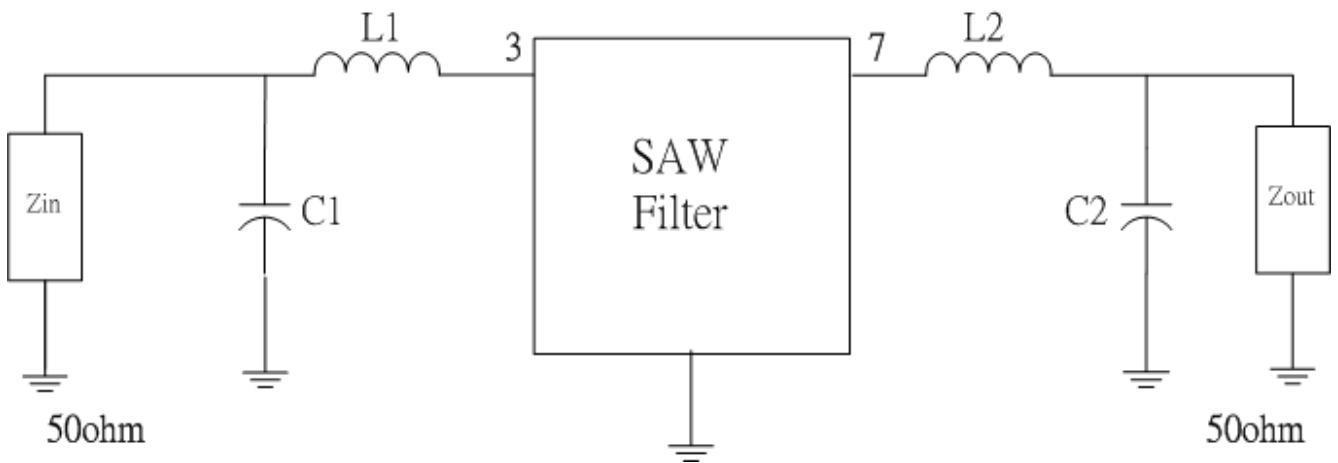


Fig2. Horizontal: 17MHz/Div Vertical: 1dB/Div  
Vertical: 100ns/Div

### (3) Smith Chart

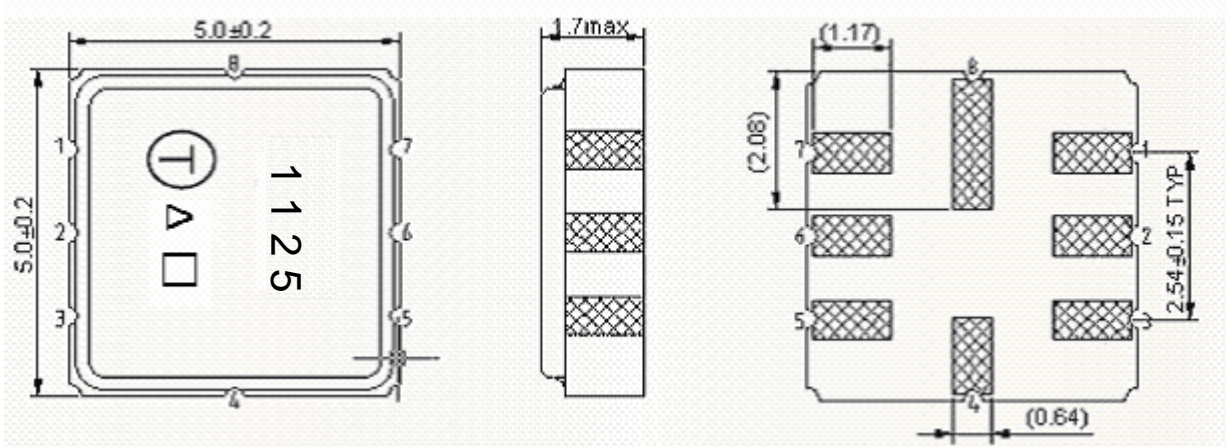


### D. Matching Circuit:



**L1=3nH C1=7pF L2=3nH C2=5.6pF**

### E. Outline Drawing:



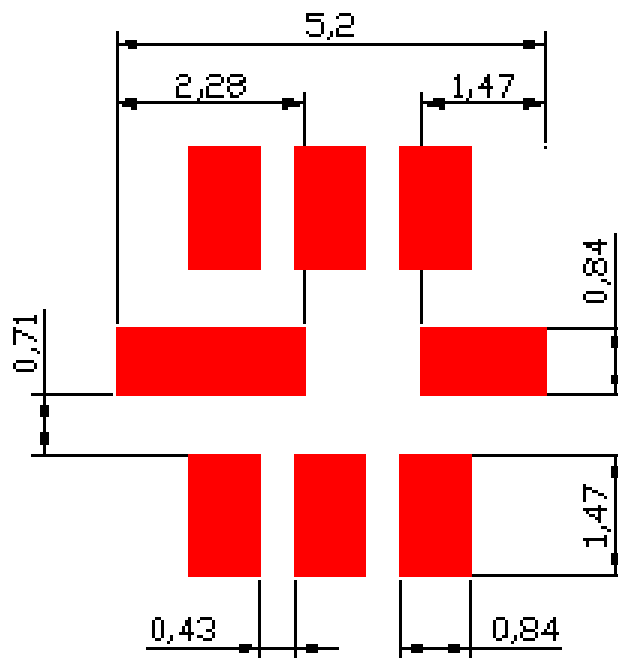
- #3 – Input
- #2 – Input ground
- #7 – Output
- #6 – Output ground
- #1,4,5,8 – Ground
- : Week Code
- Unit : mm
- △ : Product / Year Code

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

### Week Code Table

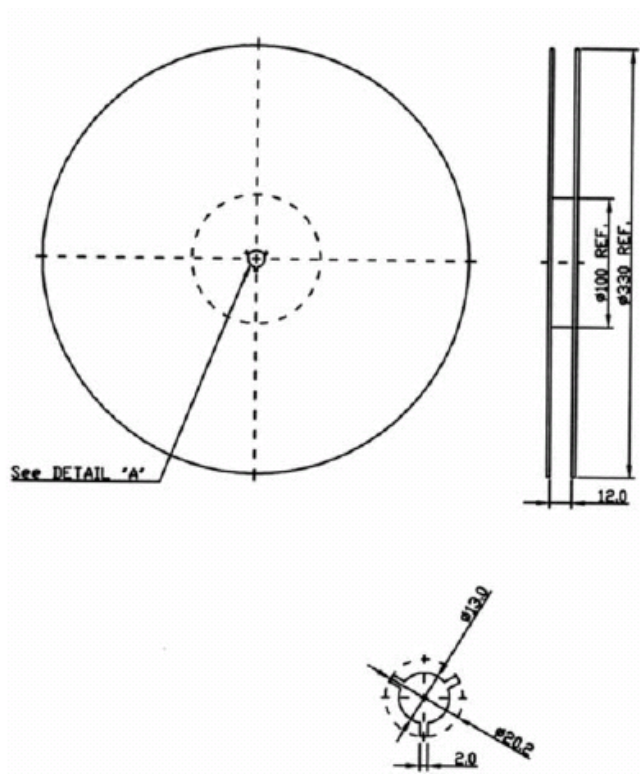
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

F. PCB Footprint:

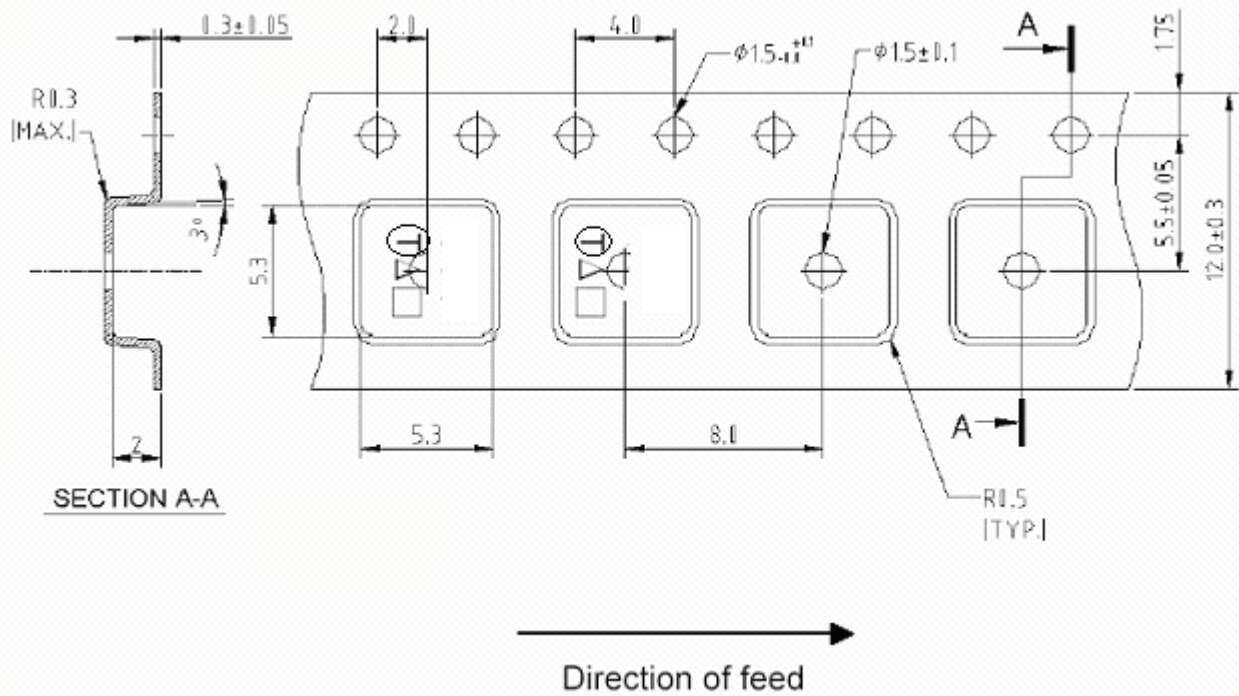


G. PACKING:

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



2. TAPE DIMENSION:



H. RECOMMENDED REFLOW PROFILE:

