



# 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](mailto:tstsales@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)


## Product Specifications Approval Sheet

Product Description: SAW Filter 974 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0729A

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

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

Checked by: \_\_\_\_\_ Bob Chau 

Approval by: \_\_\_\_\_ Andy Yu 

Date: \_\_\_\_\_ 2019/5/13



# 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](mailto:tstsales@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

## SAW Filter 974 MHz

MODEL NO.:TA0729A

REV. NO.:2.0

### A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C
5. Moisture Sensitive Level: Level 1 (MSL1)

RoHS Compliant  
Lead free  
Lead-free soldering

Electrostatic Sensitive Device (ESD)

### B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (differential) :  $Z_s = 150 \Omega // 39 \text{ nH}$

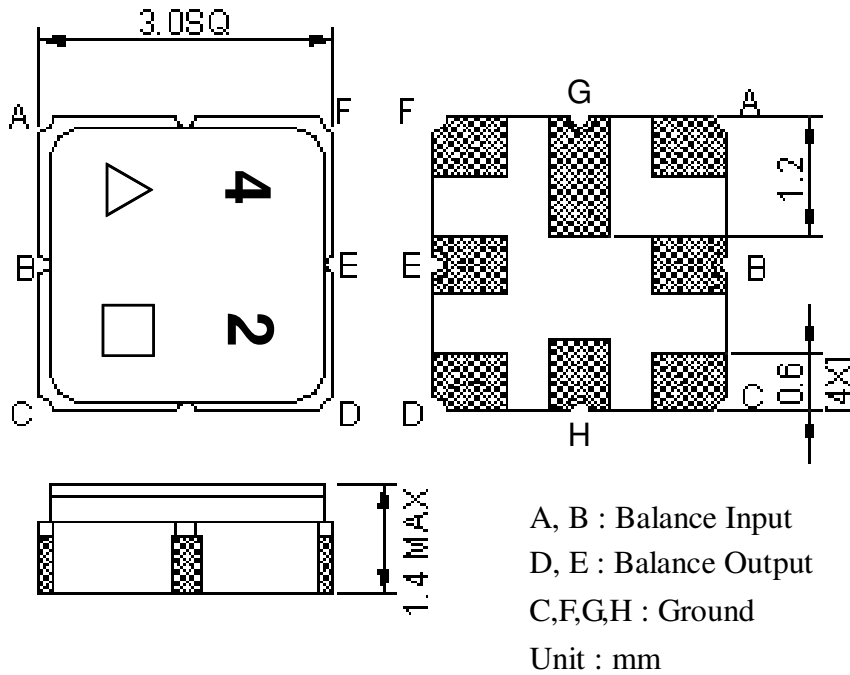
Terminating load impedance (differential) :  $Z_L = 150 \Omega // 39 \text{ nH}$

Item	Unit	Min.	Typ.	Max.	Note
<b>Center Frequency</b> <b>Fc</b>	MHz	-	974	-	-
<b>Bandwidth at -2 dB</b>	MHz	40	60	-	-
<b>Insertion Loss</b> in 954~994 MHz	dB	-	3.6	5	-
<b>Amplitude ripple</b> (954 MHz ~ 994 MHz)	dB	-	0.9	2	-
<b>Phase error</b> (954 MHz ~ 994 MHz) (3)	deg	-	3.2	5.5	-
<b>I/O VSWR</b> (954 MHz ~ 994 MHz)		-	2	2.3	-
<b>Attenuation</b> (1)					
50 ~ 891.94 MHz	dB	40	44	-	-
1056.06 ~ 1300 MHz	dB	35	38	-	-
1300 ~ 2000 MHz	dB	44	55	-	-
2000 ~ 6000 MHz	dB	33	35	-	-

#### Notes :

- (1) The amplitude reference is insertion loss at Fc.
- (2) The amplitude ripple is defined as the max. level – min. level over any 30 MHz block of the given bandwidth.
- (3) The phase error is measured over any 30 MHz block of the given bandwidth.

**C. OUTLINE DRAWING:**

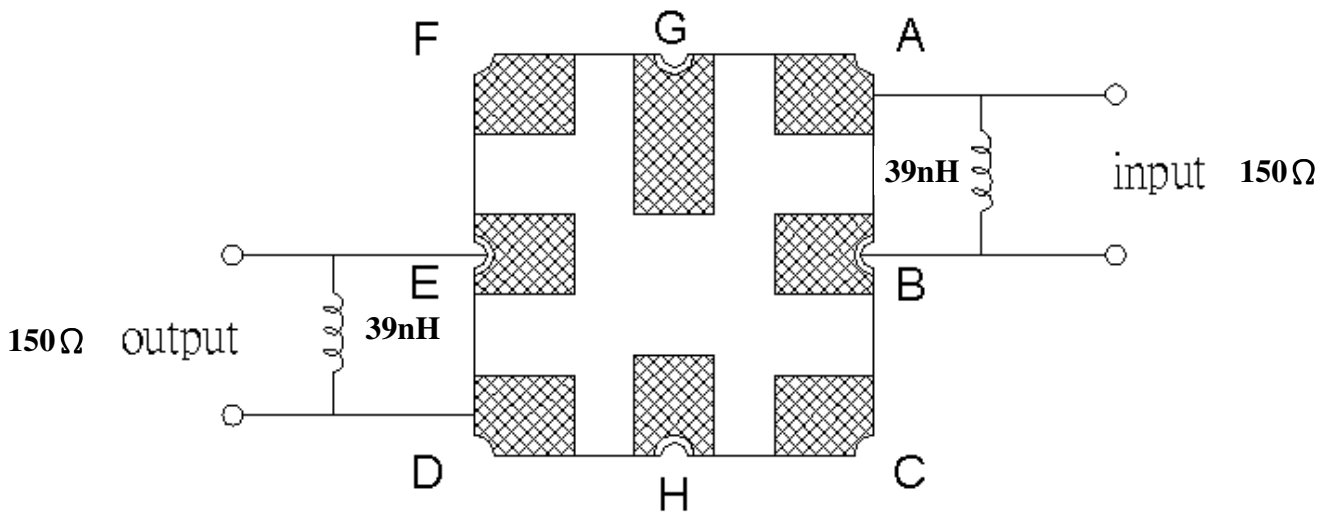


△ : Year Code (2016->6, ..., 2019->9)

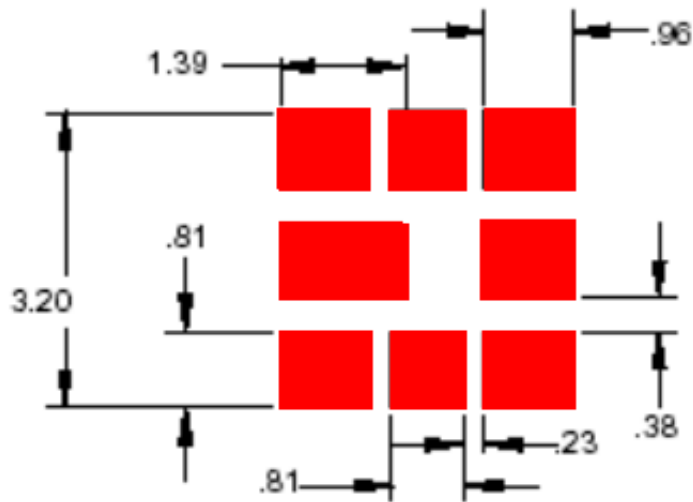
□ : Date Code (Follow the table from planner each year)

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

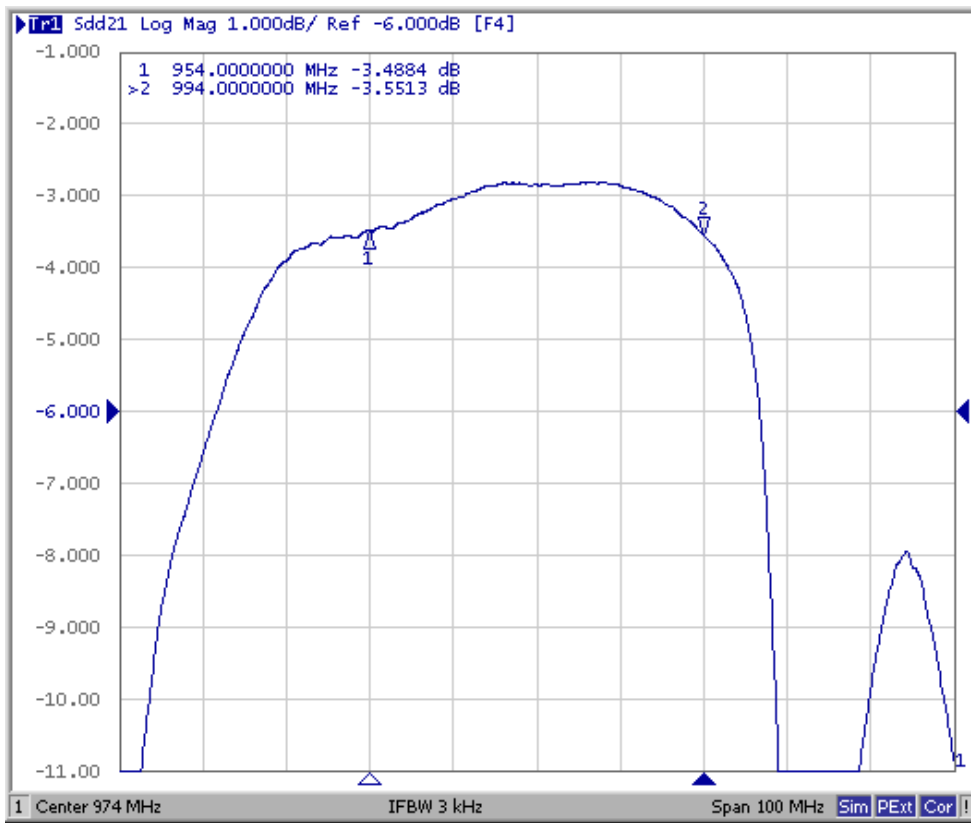
**D. MEASUREMENT CIRCUIT:**

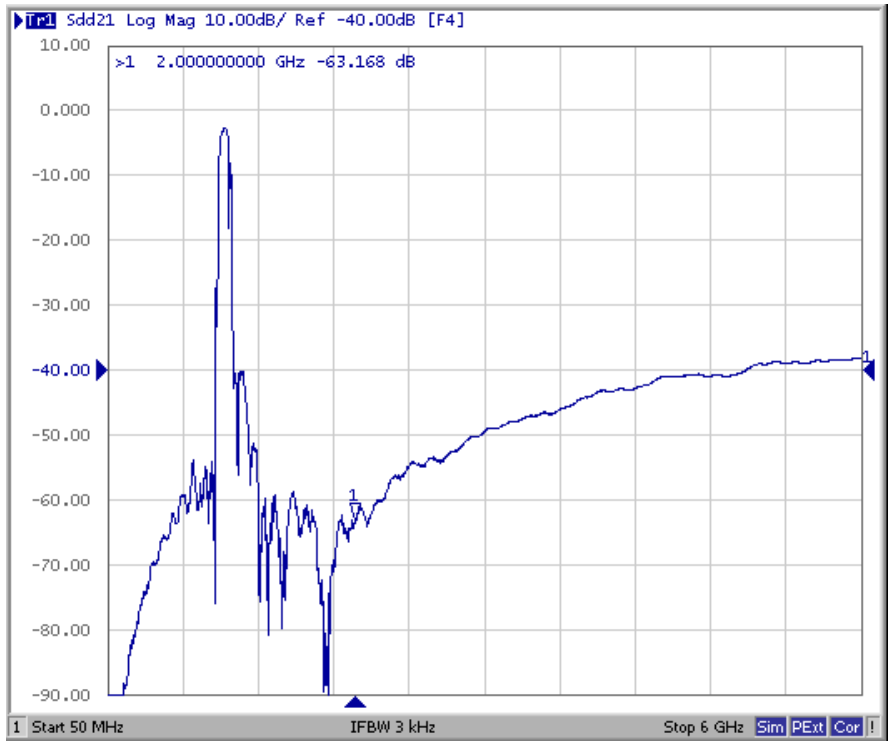


**E. PCB Footprint:**



## F. Frequency Characteristics:

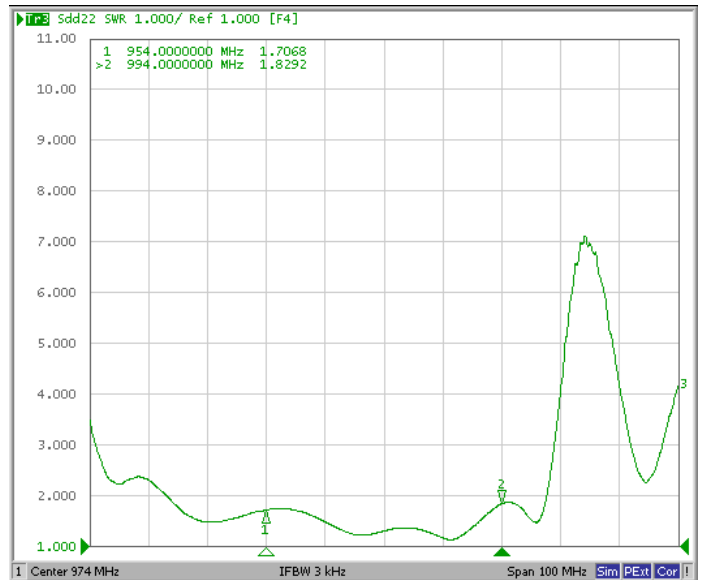
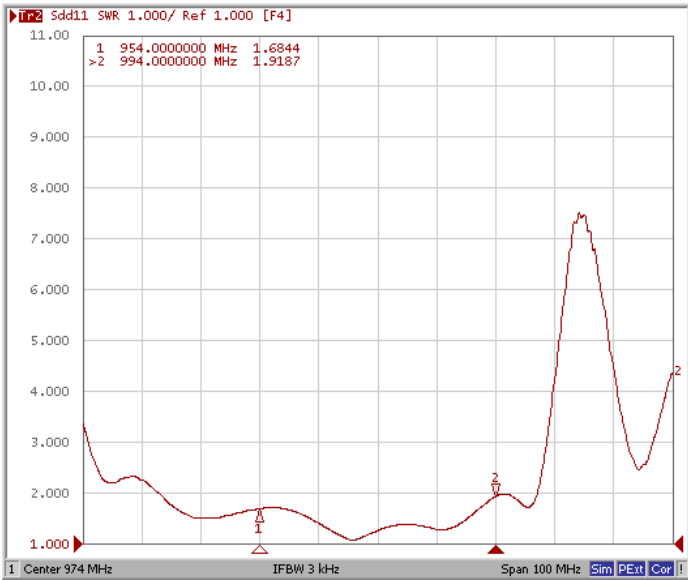




**Reflection Functions:**

**S11**

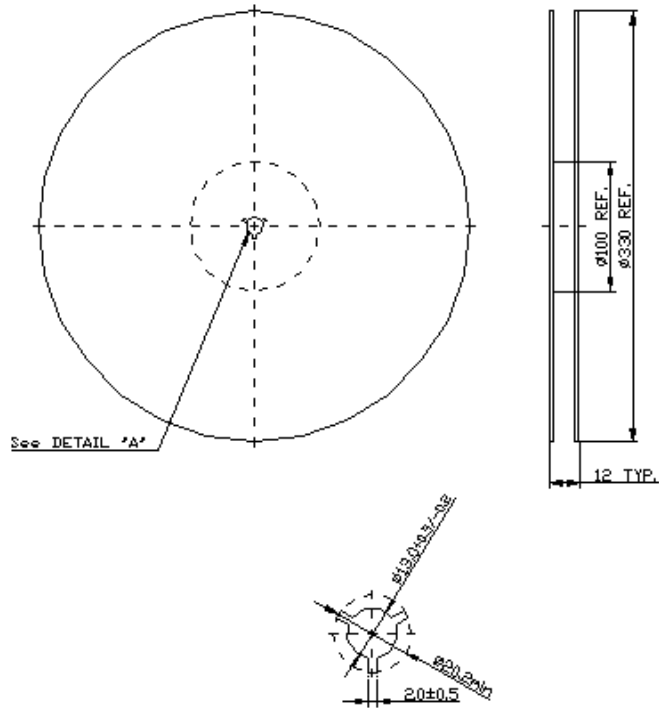
**S22**



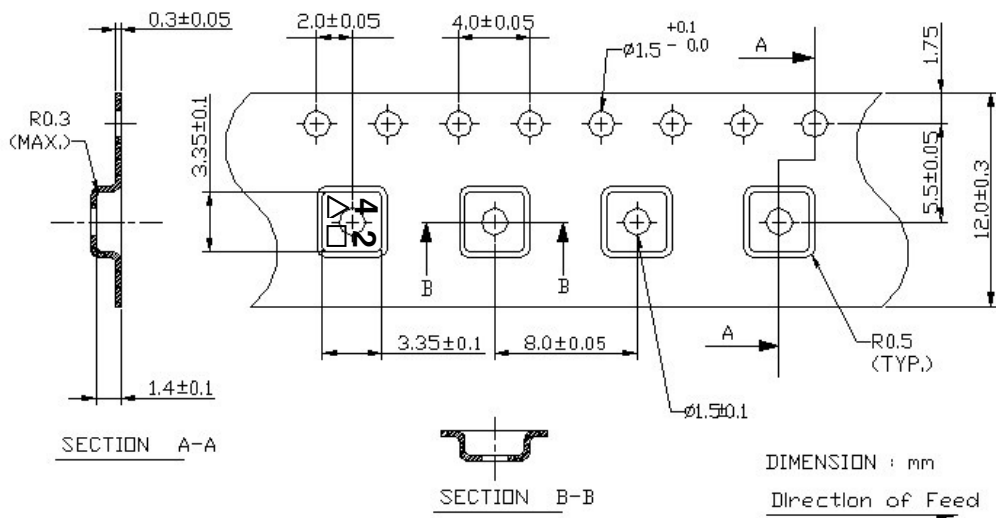
**G. PACKING:**

**1. REEL DIMENSION**

**(Reel Count: 7"=1000; 13"=3000)**



**2. TAPE DIMENSION**



## H. RECOMMENDED REFLOW PROFILE:

