



# 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 Name: SAW Filter 2375MHz SMD 3.0X3.0 mm (BW=100MHz)

TST Parts No. :TA0819A

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

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

Checked by: \_\_\_\_\_ Anne Chen *Anne Chen*

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

Date: \_\_\_\_\_ 2018/12/10

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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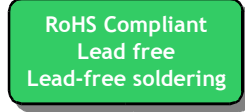
## SAW Filter 2375MHz

MODEL NO.: TA0819A

REV. NO : 4.0

### A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 3 V
3. Operating Temperature: 0°C to +80°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL 1)



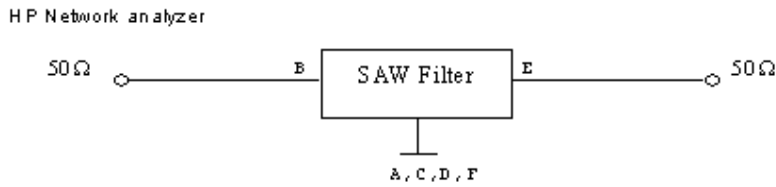
Electrostatic Sensitive Device

### B. ELECTRICAL CHARACTERISTICS:

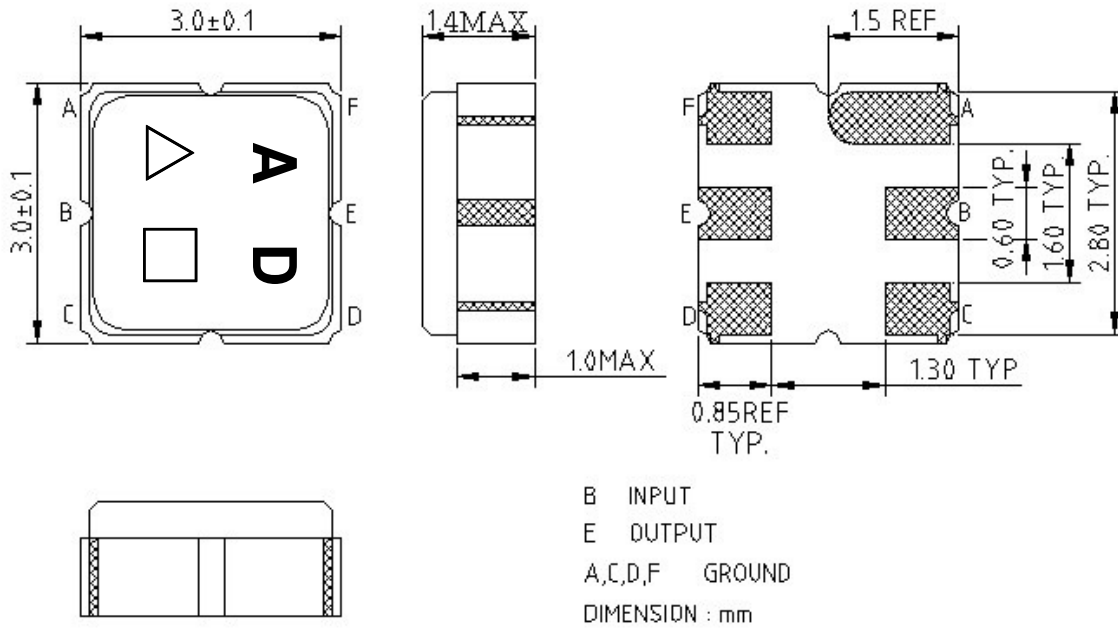
Item		Min.	Typ.	Max.
<b>Center frequency</b>	<b>F<sub>c</sub></b> <b>MHz</b>	-	2375	-
<b>Insertion loss</b> (2360 ~ 2390MHz)	<b>IL</b> <b>dB</b>	-	1.8	2.5
<b>Insertion loss</b> (2310 ~ 2360MHz)	<b>IL</b> <b>dB</b>	-	2.8	4.5
<b>Insertion loss</b> (2300 ~ 2310MHz)	<b>IL</b> <b>dB</b>	-	4.8	6.0
<b>Insertion loss</b> (2390 ~ 2400MHz)	<b>IL</b> <b>dB</b>	-	2.8	4.5
<b>Amplitude ripple</b> (2360~2390 MHz)	<b>dB</b>	-	0.6	1.0
<b>Amplitude ripple</b> (2310~2360 MHz)	<b>dB</b>	-	1.1	1.5
<b>Amplitude ripple</b> (2300~2310 MHz)	<b>dB</b>	-	1.7	2.5
<b>Amplitude ripple</b> (2390~2400 MHz)	<b>dB</b>	-	1.1	2.0
<b>VSWR</b> (2300~2400 MHz)			1.85	2.5
<b>Attenuation</b> (Reference level from 0 dB)				
D.C. ~ 2200 MHz	<b>dB</b>	23	29.5	-
2452 ~ 2472 MHz	<b>dB</b>	45	62	-
2472 ~ 4000 MHz	<b>dB</b>	30	35	-
Temperature Coefficient	<b>Ppm/°C</b>	-	-36	-
<b>Source impedance</b>	<b>Z<sub>s</sub></b> <b>Ω</b>	-	50	-
<b>Load impedance</b>	<b>Z<sub>L</sub></b> <b>Ω</b>	-	50	-

**C. MEASUREMENT CIRCUIT:**

**50 Ohm Test circuit (single-ended / single-ended)**



**D. OUTLINE DRAWING:**

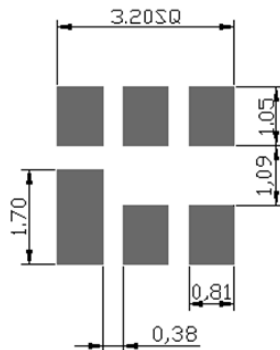


△ : Year Code(2007→7, ...2013→3, ..., 2019→9)

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

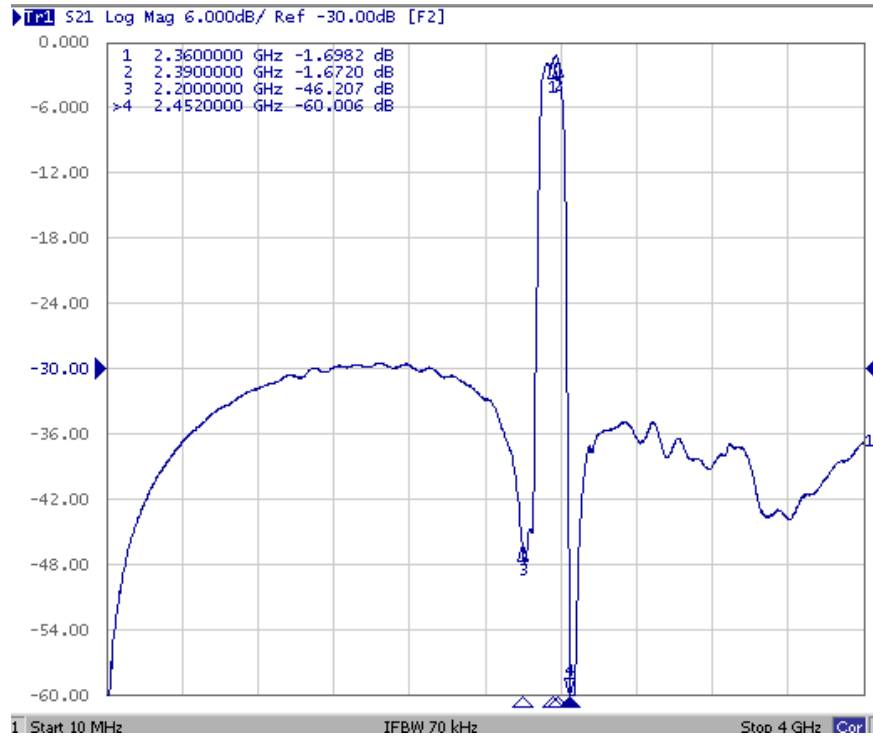
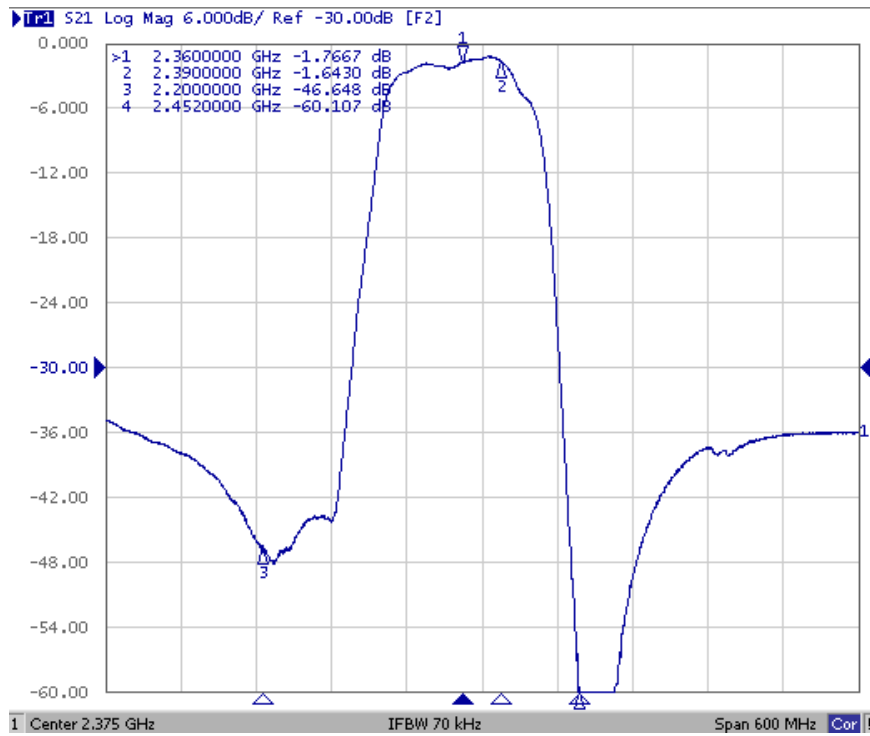
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

**E. PCB FOOTPRINT :**



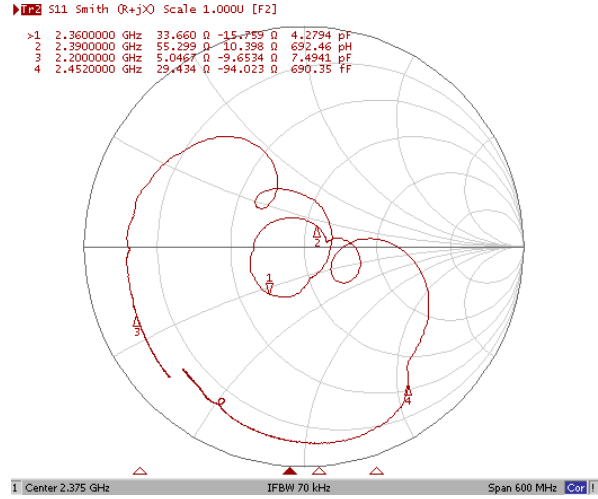
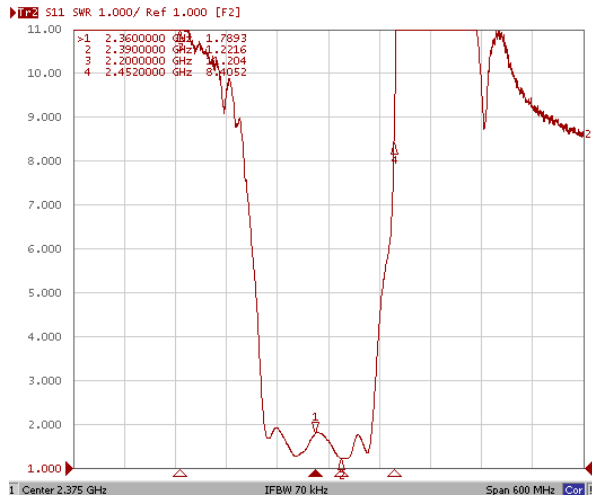
## F. FREQUENCY CHARACTERISTICS :

### Transfer function

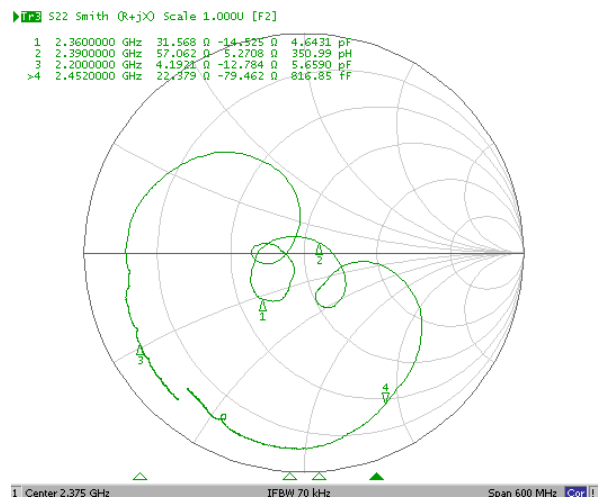
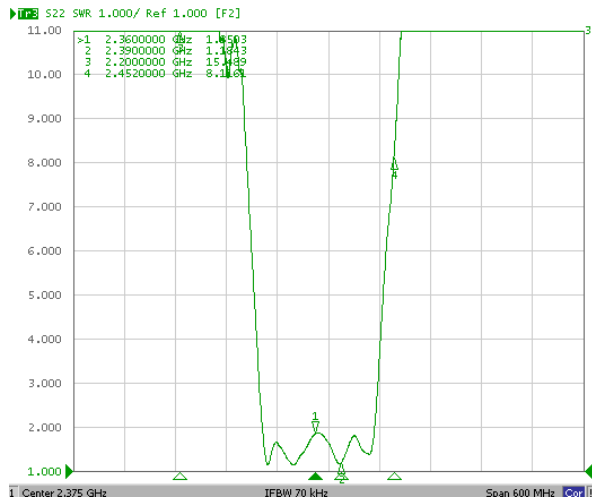


# Reflection Functions :

## S11



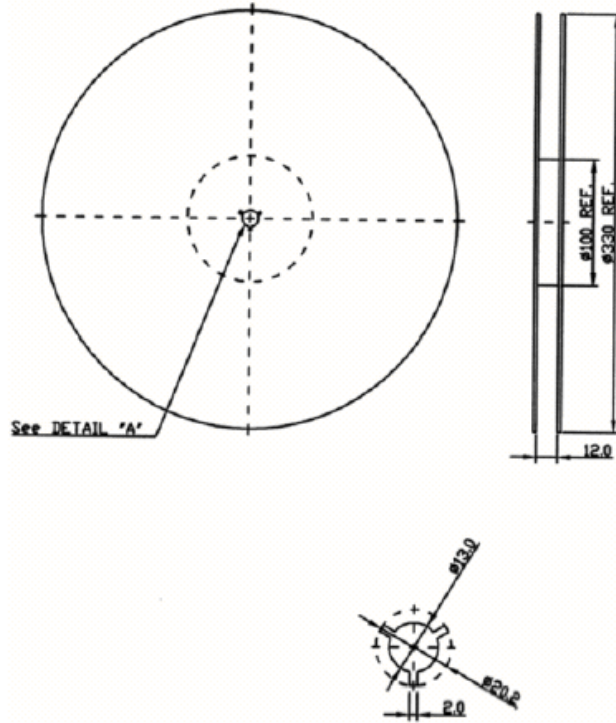
## S22



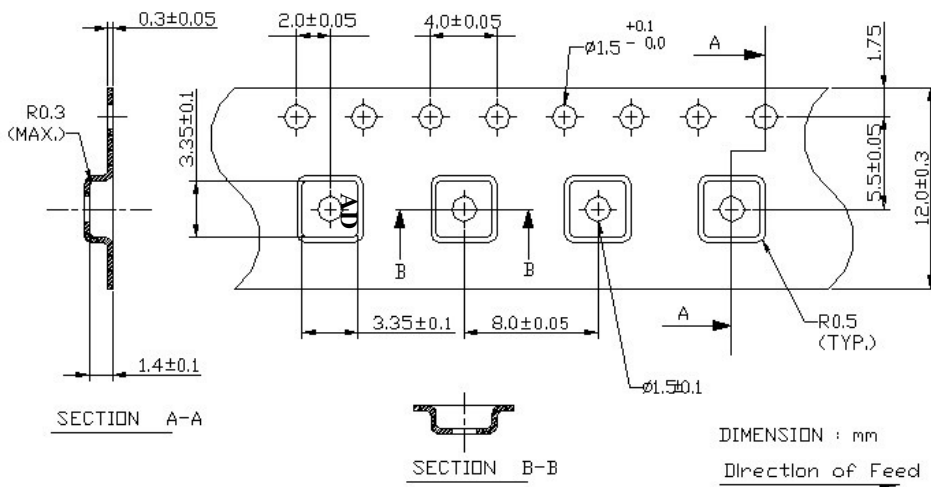
**G. PACKING:**

**1. REEL DIMENSION**

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



**2. TAPE DIMENSION**



## H. RECOMMENDED REFLOW PROFILE:

