



# 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

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## Product Specifications Approval Sheet

Product Description: SAW Filter 1575.42 MHz SMD 3.0X3.0 mm (BW=2MHz)

TST Part No.: TA0224A

Customer Part No.: \_\_\_\_\_

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

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

Approved 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 1575.42 MHz

MODEL NO.:TA0224A

REV. NO.:5

### A. MAXIMUM RATING:

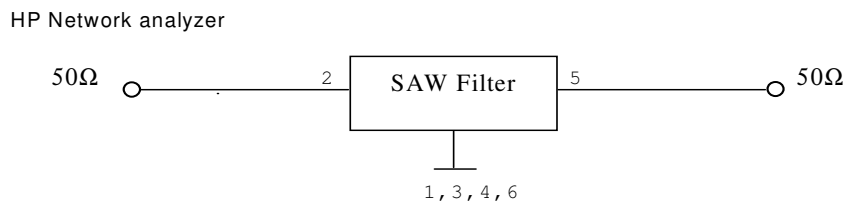
1. Input Power Level: 10 dBm
2. DC Voltage : 5V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +105°C
5. Moisture Sensitivity Level: Level 1 (MSL 1)

RoHS Compliant  
Lead free  
Lead-free soldering

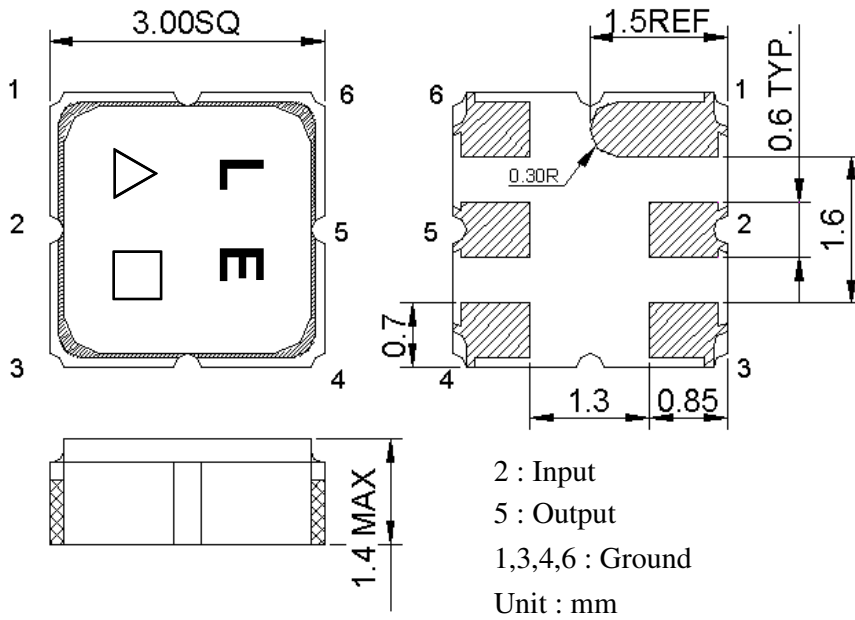
### B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.	Note
<b>Center Frequency</b> Fc	MHz	-	1575.42	-	-
<b>Insertion Loss</b> within Fc +/- 1 MHz	IL	-	2.6	3.5	-
<b>Amplitude Ripple</b> within Fc +/- 1 MHz	dB	-	0.1	1.0	-
<b>VSWR</b> within Fc +/- 1 MHz		-	1.5	2.5	-
<b>Attenuation</b> (Reference level from 0 dB)					
880 ~ 915 MHz	dB	35	37	-	-
1525.42 MHz	dB	30	47	-	-
1535.42 MHz	dB	20	44.5	-	-
1615.42 MHz	dB	20	62.5	-	-
1625.42 MHz	dB	30	75	-	-
1710 ~ 1785 MHz	dB	50	54	-	-
<b>Temperature Coefficient of Frequency</b>	ppm/°C	-	-36	-	-

### C. MEASUREMENT CIRCUIT:



**D. OUTLINE DRAWING:**

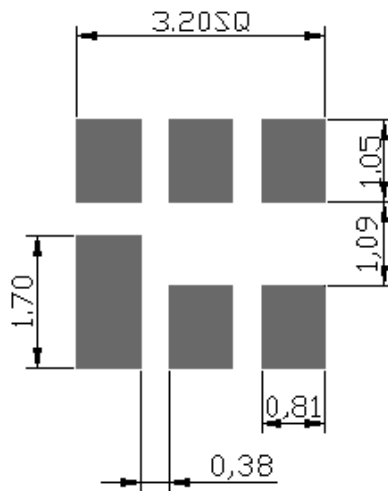


△ : Year Code (2019->9, 2020->0,..., 2028->8)  
 □ : Date Code (W01->A,W02->B,...W27->a,...,W52->z)

**Date Code Table:**

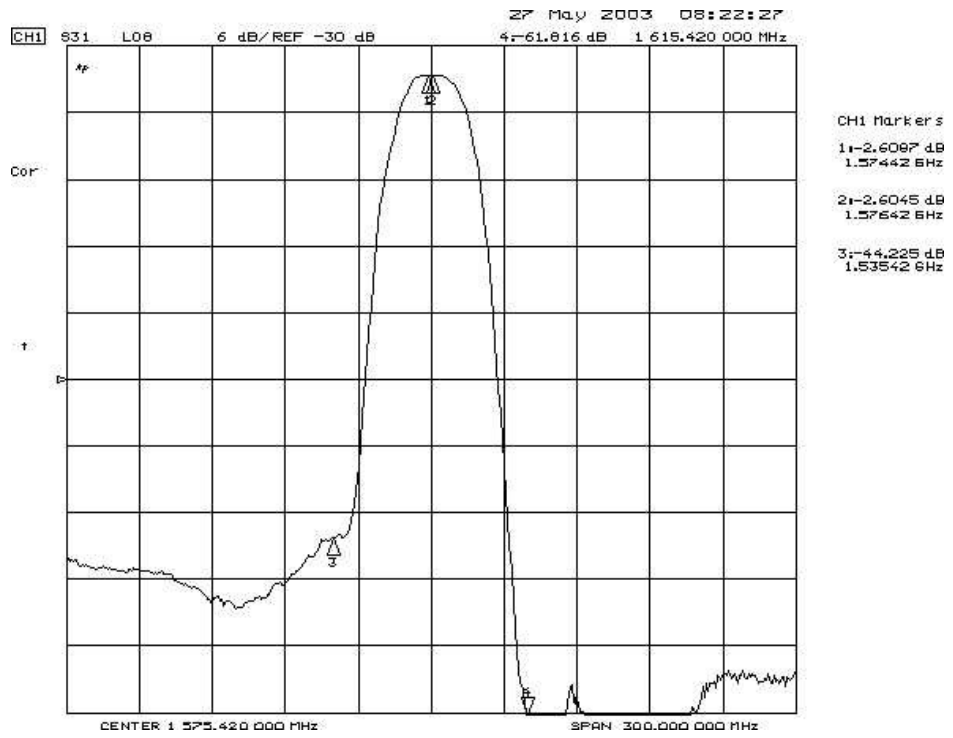
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

**E. PCB FOOTPRINT:**

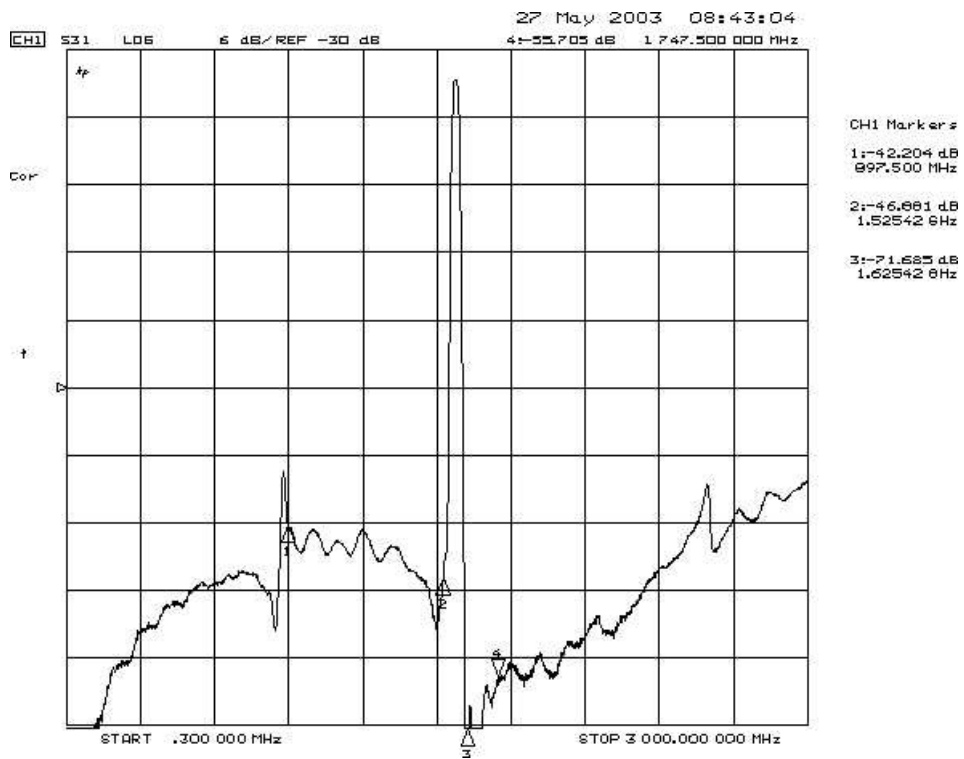


## F. FREQUENCY CHARACTERISTICS:

Transfer function (25 °C)

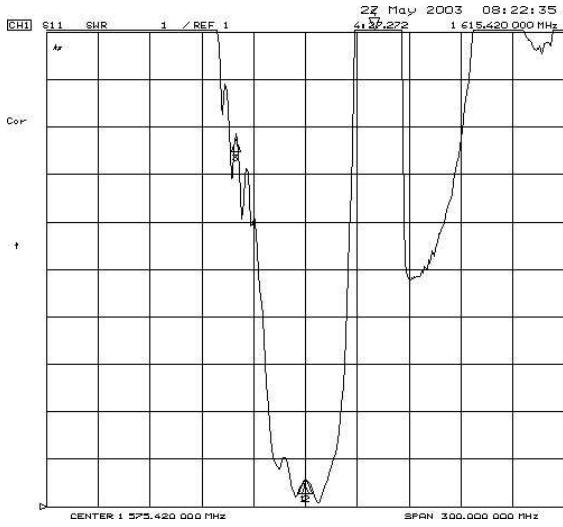


(wideband)



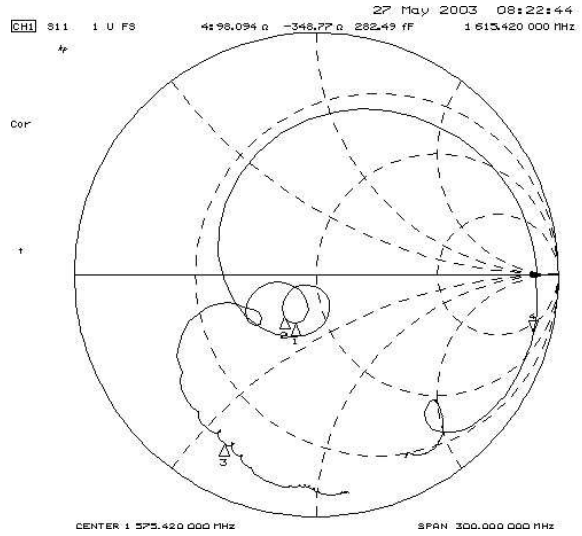
# Reflection Functions :

## S11



CHI Markers

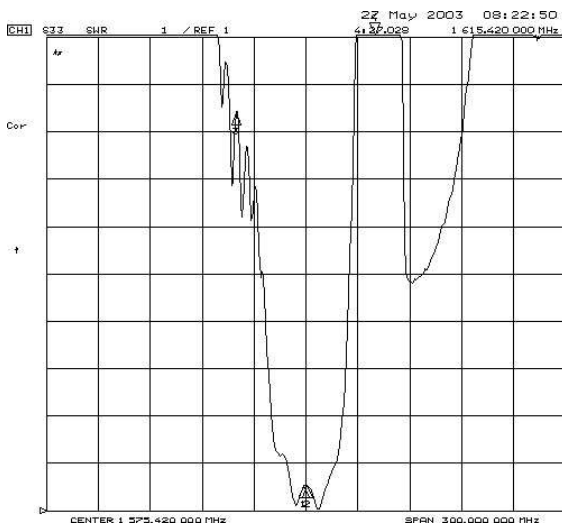
1:	1.5499	1.57442 GHz
2:	1.5490	1.57642 GHz
3:	8.7458	1.53542 GHz



CHI Markers

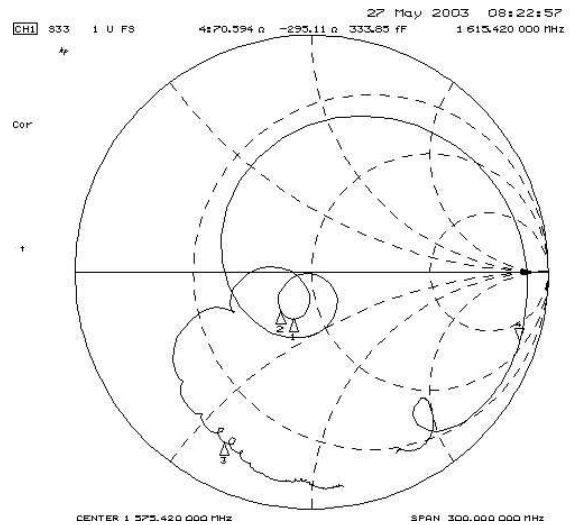
1:	39.246 a	-18.428 a	1.57442 GHz
2:	36.443 a	-13.211 a	1.57642 GHz
3:	7.6855 a	-29.221 a	1.53542 GHz

## S22



CHI Markers

1:	1.5316	1.57442 GHz
2:	1.5320	1.57642 GHz
3:	9.4006	1.53542 GHz



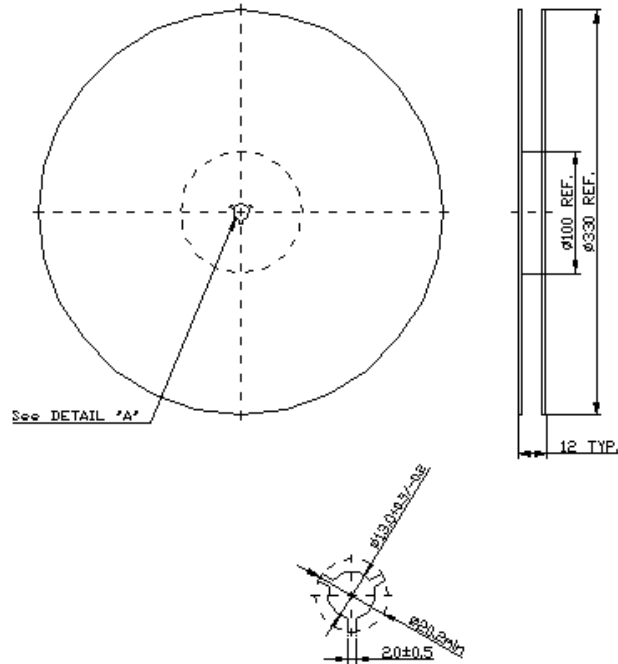
CHI Markers

1:	40.169 a	-18.239 a	1.57442 GHz
2:	36.742 a	-12.856 a	1.57642 GHz
3:	7.2314 a	-30.139 a	1.53542 GHz

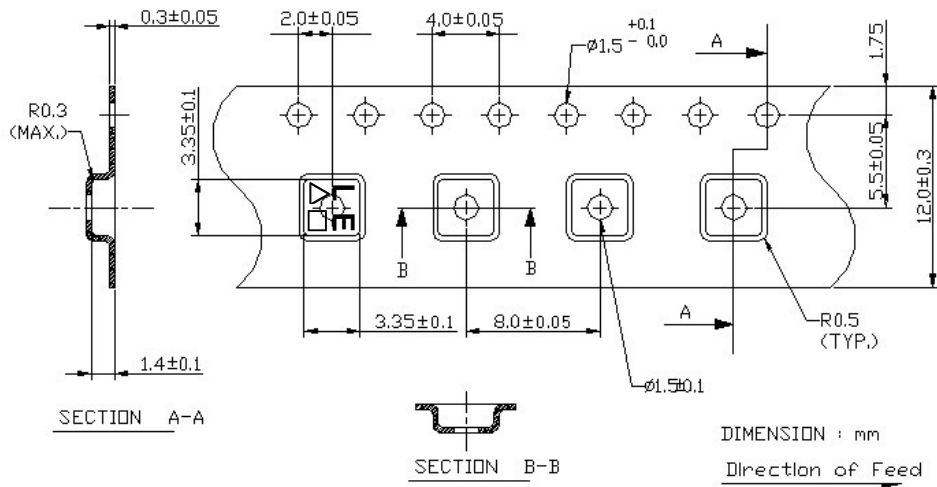
**G. PACKING:**

1. REEL DIMENSION (Reel Count : 7"=1000 ; 13"=3000 )

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



2. TAPE DIMENSION



**H. RECOMMENDED REFLOW PROFILE:**

