

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: SAW Filter 1581 MHz SMD 3.0×3.0 mm (BW=42 MHz)

TST Part No.: TA1553A

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

Customer signature r	required		
Company:			-
Division:			_
Approved by :			_
Date:			
Checked by:	Sam Lin	JamLin	
Approved by:	Andy Yu	JanLin Andy Mn	
Date:	2019/06/17		

- 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.

TAI-SAW TECHNOLOGY CO., LTD.

## TAI-SAW TECHNOLOGY CO., LTD. No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

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: <u>tstsales@mail.taisaw.com</u> Web: <u>www.taisaw.com</u>

## SAW Filter 1581 MHz SMD 3.0×3.0 mm (BW=42 MHz)

MODEL NO .: TA1553A

#### A. <u>MAXIMUM RATING:</u>

1. Input Power Level: 20 dBm

- 2. DC Voltage : 3 V
- 3. Operating Temperature: -20 ℃ to +70 ℃
- 4. Storage Temperature: -40 ℃ to +85 ℃
- 5. Moisture Sensitive Level (MSL): Level 1

# REV. NO.:2

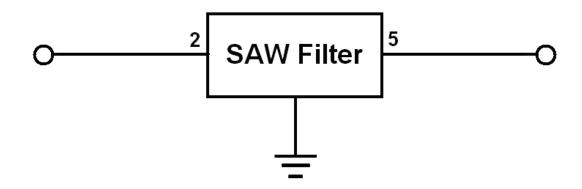
RoHS Compliant Lead free Lead-free soldering

#### Electrostatic Sensitive Device (ESD)

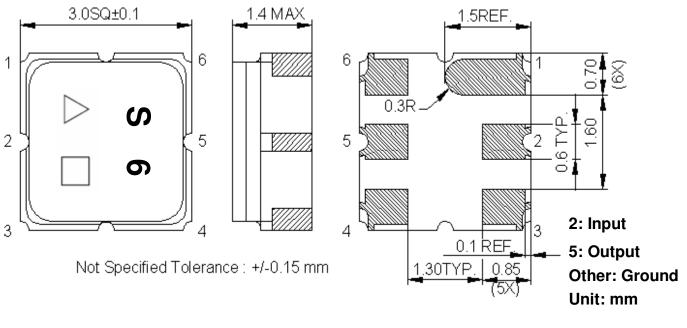
#### B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Тур.	Max.				
Center frequency	Fc	MHz	-	1581	-			
Insertion Loss (1560~1602 MHz)	IL	dB	-	2.6	4.0			
Amplitude Ripple (1560~1602 MHz)		dB	-	1.3	2.7			
<b>VSWR</b> (1560~1602 MHz)		-	-	1.7	2.3			
Attenuation (Reference level from 0 dB)								
D.C. ~ 600 MHz		dB	30	36	-			
600 ~ 1500 MHz		dB	27	34	-			
1500 ~ 1530 MHz		dB	20	39	-			
1630 ~ 1675 MHz		dB	20	44	-			
1675 ~ 3000 MHz		dB	30	38	-			
Temperature coefficient of frequency		ppm/k	-	-36	-			

#### C. MEASUREMENT CIRCUIT:



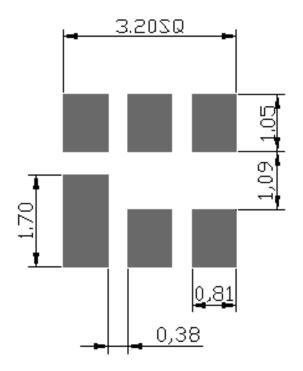
#### D. OUTLINE DRAWING:



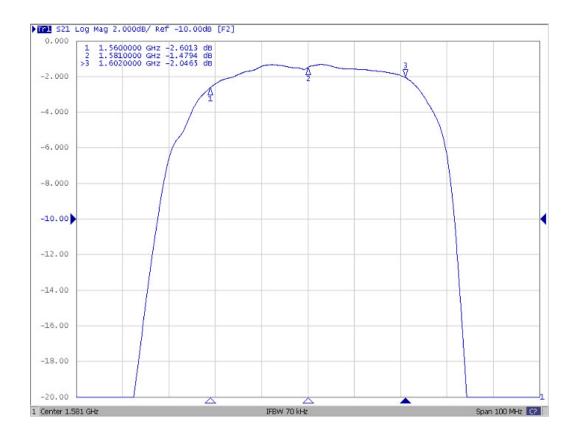
#### Date Code Table:

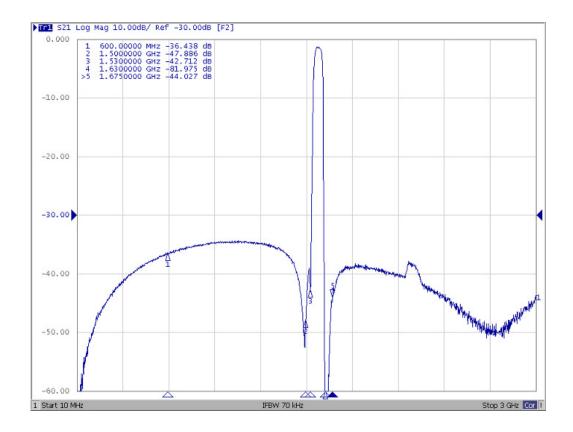
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	В	С	D	E	F	G	Н	I.	J	K	L	М
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	Ρ	Q	R	S	Т	U	V	W	Х	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	e	f	g	h	i	j	k	l l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	0	р	q	r	S	t	ŭ	V	W	Х	У	Z

### E. PCB Footprint:



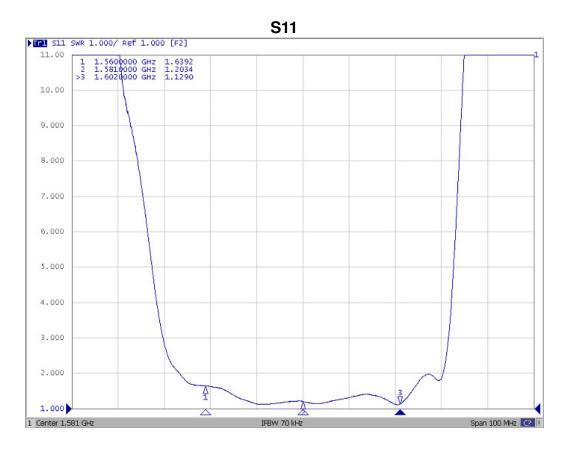
## F. Frequency Characteristics:



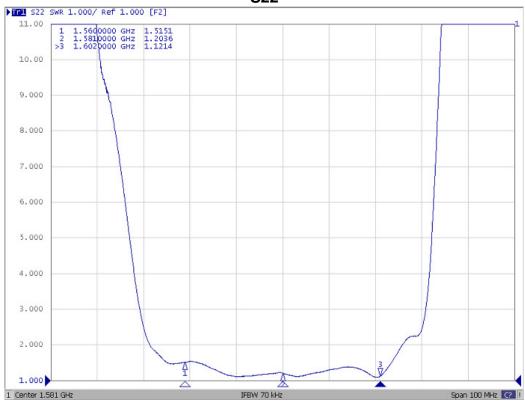


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#### **Reflection Functions:**



S22

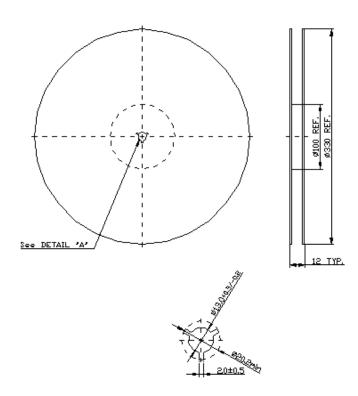


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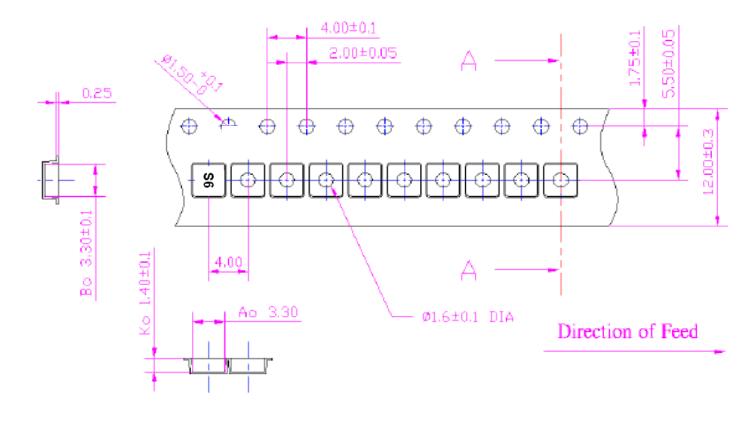
#### G. PACKING:

1. REEL DIMENSION

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



## 2. TAPE DIMENSION



#### H. RECOMMENDED REFLOW PROFILE:

. Preheating shall be fixed at 150~180  $^\circ\!\mathrm{C}$  for 60~90 seconds.

- 2. Ascending time to preheating temperature  $150^{\circ}$ C shall be 30 seconds min.
- 3. Heating shall be fixed at 220  $^{\circ}$ C for 50~80 seconds and at 260  $^{\circ}$ C +0/-5  $^{\circ}$ C peak (20~40 sec).
- 4. Time: 2 times.

