

# 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: tstsales@mail.taisaw.com Web: www.taisaw.com

# **Product Specifications Approval Sheet**

Product Description	n: SAW Filter 399.8 M	IHz SMD 3.0×3.	.0 mm (BW=1 MHz)
TST Part No.: TA19	951A		
Customer Part No.:			
Customer signature	required		
			_
Division:			_
Approved by :			-
Date:			-
Checked by:	David Chang	Dark	
Approved by:	Bob Chau	phylim	
Date:	2015/12/09		

- 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 399.8 MHz

MODEL NO.: TA1951A REV. NO.:1

#### A. MAXIMUM RATING:

1. Input Power Level: 20 dBm

2. DC Voltage: 7.5 V

3. Operating Temperature: -20°C to +70°C

4. Storage Temperature: -30°C to +80°C

RoHS Compliant Lead free Lead-free soldering

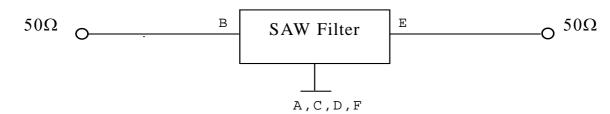
Electrostatic Sensitive Device (ESD)

### **B. ELECTRICAL CHARACTERISTICS:**

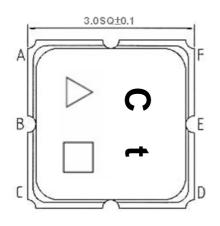
Item	Unit	Min.	Тур.	Max.					
Center frequency	Fc	MHz	-	399.8	-				
Insertion Loss (399.3~400.3 MHz)	IL	dB	-	1.8	2.4				
Amplitude Ripple (399.3~400.3 MHz)	dB	-	0.1	1.2					
<b>VSWR</b> (399.3~400.3 MHz)	-	-	1.3	2.2					
Attenuation (Reference level from 0 dB)									
10 ~ 369.8 MHz		dB	47	68	-				
429.8 ~ 1000 MHz		dB	47	53	-				
Temperature coefficient of frequency	ppm/k	-	-36	-					

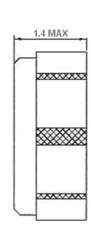
#### C. MEASUREMENT CIRCUIT:

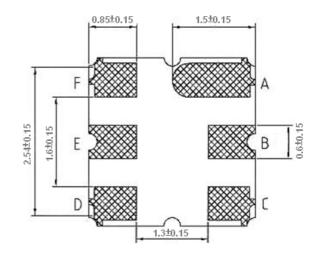
HP Network analyzer



# **D. OUTLINE DRAWING:**







B: Input E: Output

A, C, D, F: Ground

Unit: mm

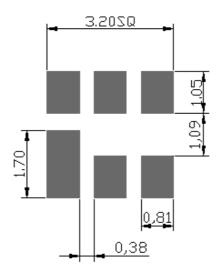
 $\triangle$ : Year Code (2011->1, 2012->2, ..., 2019->9, 2020->0)

☐: Date Code

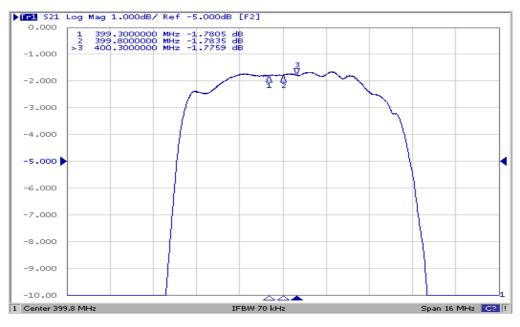
### **Date Code Table:**

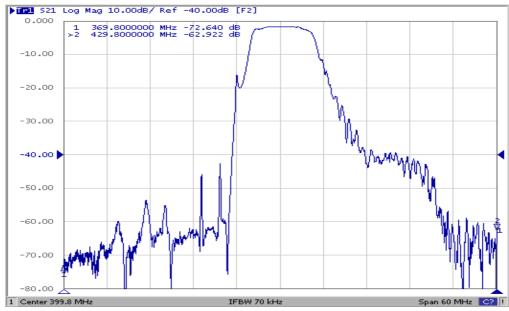
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
А	В	С	D	E	F	G	Н	J	J	K	L	М
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	е	f	g	h	j	j	k	I.	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	0	р	q	r	S	t	u	٧	W	Х	У	Z

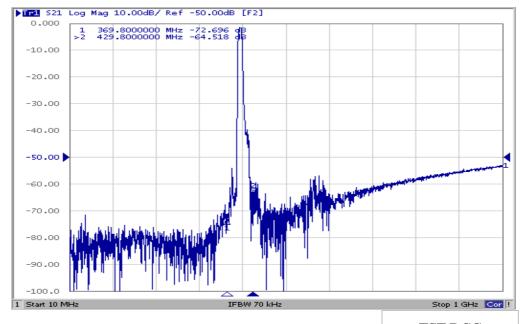
# **E. PCB Footprint:**



# F. Frequency Characteristics:





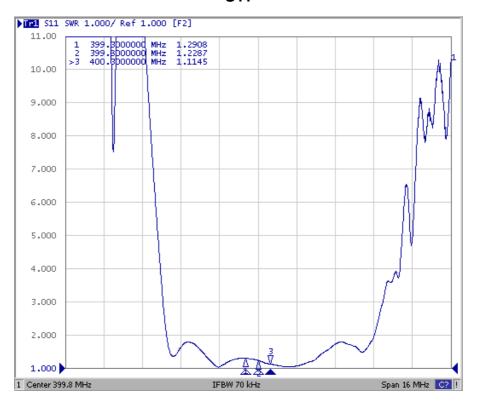


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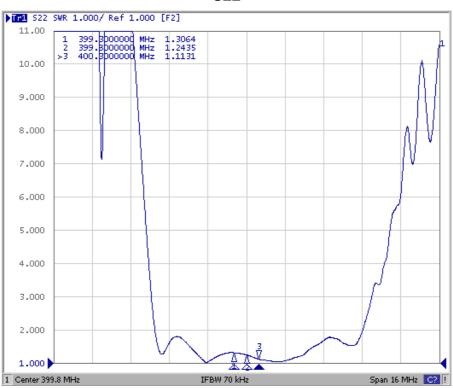
**TST DCC**Release document

# **Reflection Functions:**

**S11** 



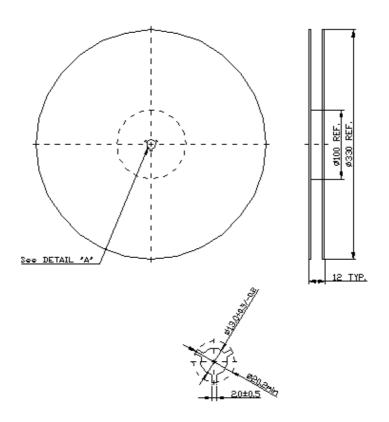
# **S22**



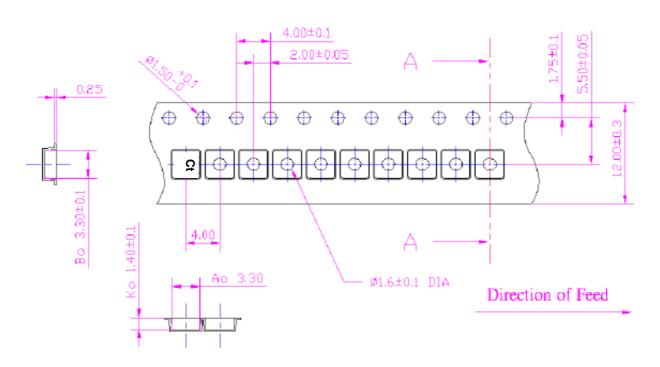
# G. PACKING:

# 1. REEL DIMENSION

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



# 2. TAPE DIMENSION



### H. Recommended Reflow Profile:

- 1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
- 2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
- 3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C+0/-5°C peak (20~40sec).
- 4. Time: 2 times.

