

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 Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description:	SAW Filter 1950	MHz SMD 3.0×3.0 r	nm (BW=100MHz
TST Part No.: TA198	1A		
Customer Part No.:_			
Customer signature re	equired		
Company:			
Division:			
Approved by :			
Date:			
Checked by:	Sam Lin	Jan Lin Andy Jn	
Approved by:	Andy Yu	Andy In	
Date:	2018/05/03		

- 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 1950 MHz

MODEL NO.: TA1981A REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m

2. DC voltage: 3 V

3. Operating Temperature: -40°C to 85°C

4. Storage Temperature: -40°C to +85° C

Electrostatic Sensitive Device (ESD)

RoHS Compliant

Lead free

Lead-free soldering

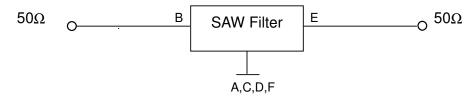
5. Moisture Sensitivity Level: Level 1 (MSL1)

B. CHARACTERISTICS:

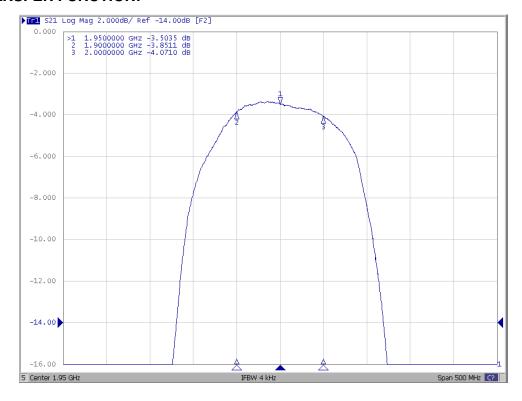
Item		Unit	Min.	Typical	Max.		
Center frequency	Fc	MHz	-	1950	-		
Insertion loss (1900 ~ 2000 MHz)	IL	dB	-	3.8	4.2		
Amplitude ripple (1900 ~ 2000 MHz)		dB	1	0.8	1.5		
VSWR (1900 ~ 2000 MHz)		-	1	2.1	2.4		
Attenuation (Reference level from 0 dB)							
50.0 ~ 1450 MHz		dB	25	30	1		
1450 ~ 1780 MHz		dB	20	33	ı		
2118 ~ 3000 MHz		dB	25	35	-		
Temperature coefficient of frequency		ppm/k	-	-80	-		

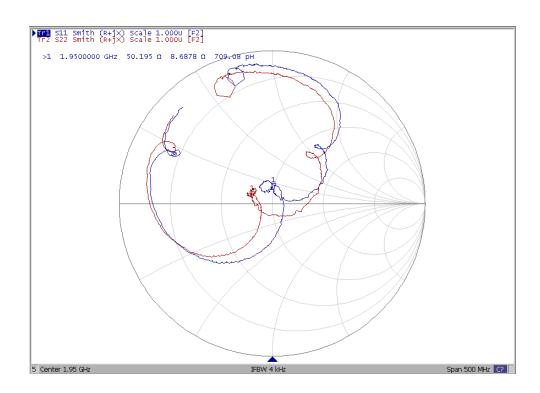
C. MEASUREMENT CIRCUIT:

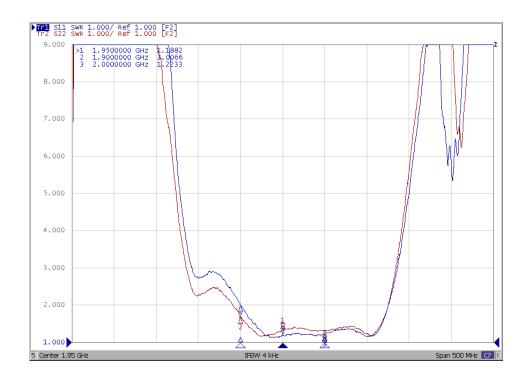


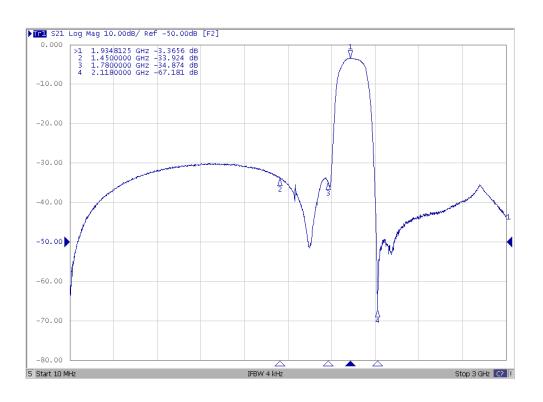


D. TRANSFER FUNCTION:

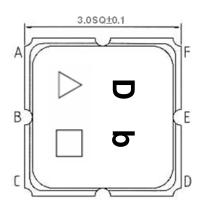


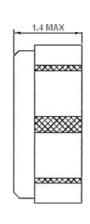


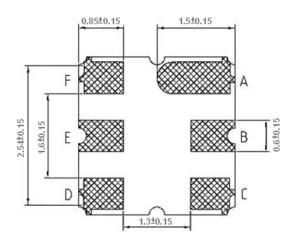




E. OUTLINE DRAWING:







B: Input E: Output

A, C, D, F: Ground

Unit: mm

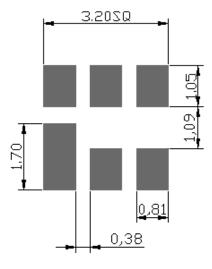
△: Year Code (2011->1, 2012->2, ..., 2019->9, 2020->0)

☐: Date Code

Date Code Table:

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	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	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	i	j	k	1	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	0	р	q	r	S	t	u	V	W	Х	У	Z

F. PCB Footprint:

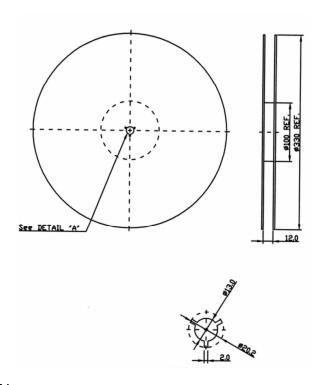


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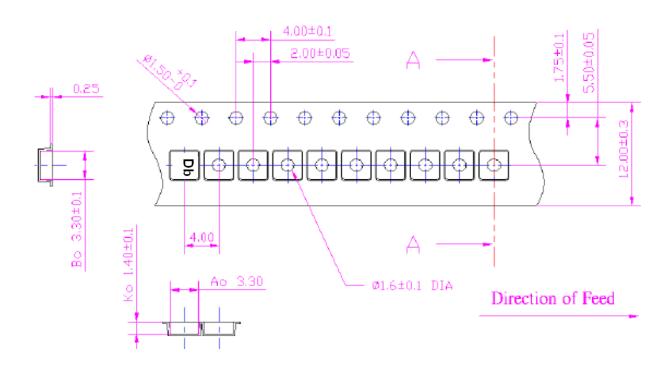
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

- 1. Preheating shall be fixed at $150\sim180^{\circ}\text{C}$ for $60\sim90$ seconds. 2. Ascending time to preheating temperature 150°C shall be 30 seconds min. 3. Heating shall be fixed at 220°C for $50\sim80$ seconds and at $260^{\circ}\text{C}+0/-5^{\circ}\text{C}$ peak ($20\sim40\text{sec}$).
- 4. Time: 2 times.

