

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: IF SAW Filter	r 575 MHz SMD	5.0X5.0 mm	(BW=30 MH
TST Part No.: TB0759A			
Customer Part No.:			
Customer signature required			
Company:			
Division:			
Approved by :			
Date:			
Checked by:			w
Approved by:	Andy Yu	Andy of	<u>n</u>
Date:	2019/08/06		

- 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 575 MHz

MODEL NO.: TB0759A REV. NO.: 2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm

2. DC Voltage: 3 V

3. Operating Temperature: -20 °C to +75 °C

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

5. Moisture Sensitive Level: Level 1 (MSL1)

RoHS Compliant Lead free Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

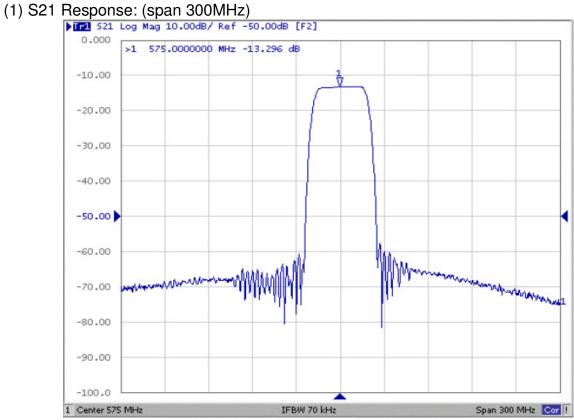
Ambient Temperature: 25 ℃

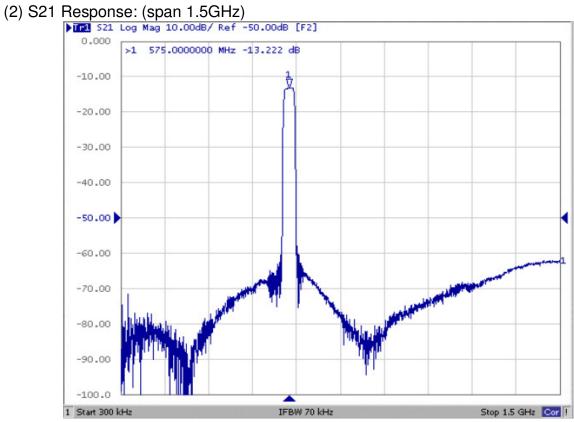
ltem		Unit	Min.	Тур.	Max.
Center Frequency	Fc	MHz	-	575	-
Minimum Insertion Loss	IL	dB	-	13.2	14.0
Amplitude Ripple (560~590 MHz)	dB	-	0.8	1.5	
Group Delay Variation (560~590 MHz)	ns	-	10	45	
Absolute Group Delay (560~590 MHz)	ns	-	290	-	
Attenuation (Reference level from 0 dB)					•
0 ~ 506 MHz		dB	50	65	-
506 ~ 536 MHz		dB	50	62	-
536 ~ 548 MHz		dB	45	60	-
638 ~ 656 MHz		dB	45	65	-
717 ~ 1000 MHz		dB	50	70	-
1000 ~1500 MHz		dB	40	63	-
Temperature Coefficient	ppm/K		-23	•	

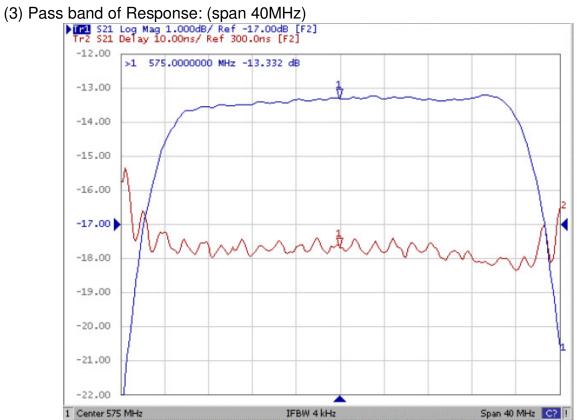
Matching:

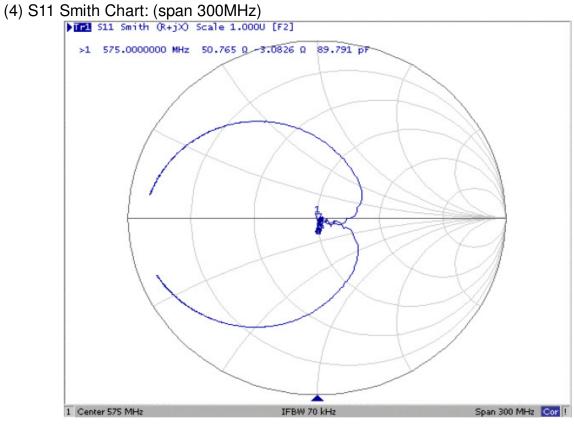
- 1. The input of the filter will be matched to 50 Ω .
- 2. The output of the filter will be matched to 50 Ω .

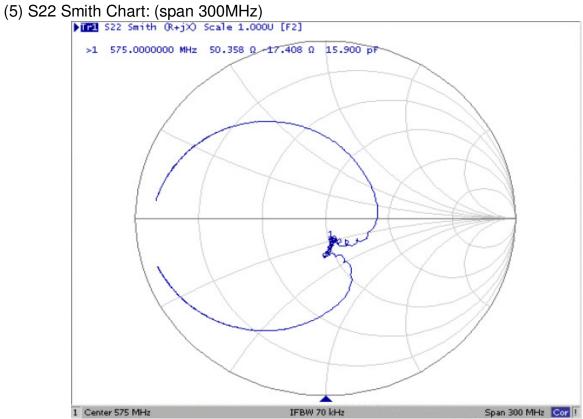
C. FREQUENCY CHARACTERISTIC:



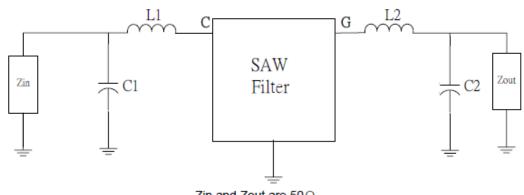






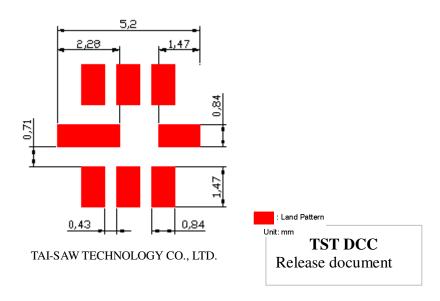


D. MEASUREMENT CIRCUIT:

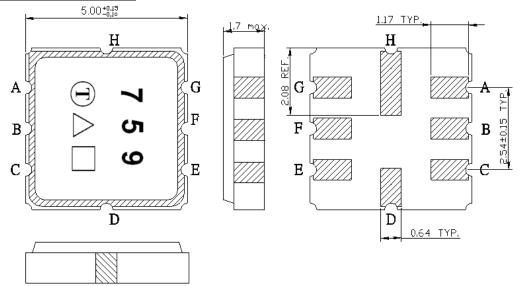


Zin and Zout are $50\,\Omega$ L1=6.8nH, C1=12pF, L2=10nH, C2=12pF

E. PCB Footprint:



F. OUTLINE DRAWING:



Pin C: RF input

Pin G: RF output

Pin H,D: Case Ground Pin A, B, E, F: Ground

: Week Code (Follow the table from planner each year)

Unit: mm

Year	2005	2006	2007	2008	
	2009	2010	2011	2012	
Product Code	В	b	<u>B</u>	<u>b</u>	

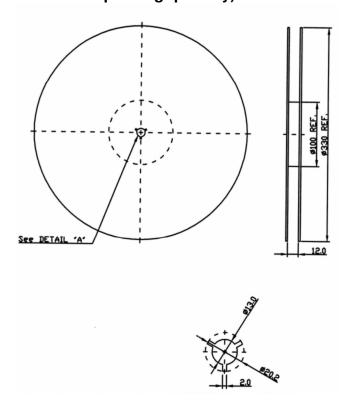
Week Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	E	F	G	Н	- 1	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	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	С	d	e	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	5	t	u	v	w	X	у	Z

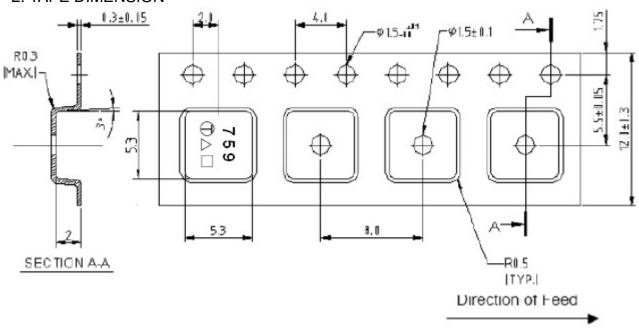
G. PACKING: (Ref: WI-75M03)

1. REEL DIMENSION

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

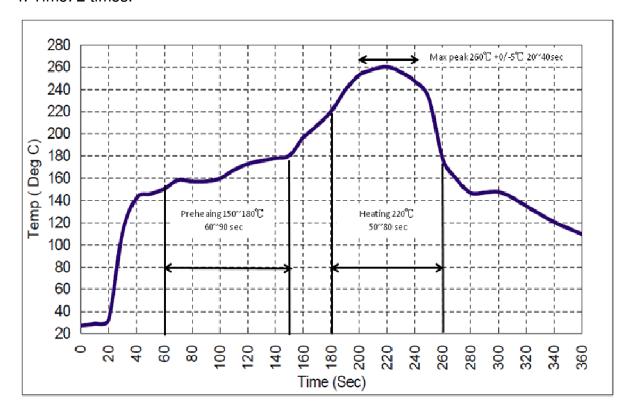


2. TAPE DIMENSION



H. Recommended Reflow Profile:

- 1. Preheating shall be fixed at $150 \sim 180^{\circ}$ °C for $60 \sim 90$ 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.



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