

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>

Product Specifications Approval Sheet

Product Description: SAW Filter 3700 MHz SMD 3.0×3.0 mm (BW=200 MHz)

TST Part No.: TA2350A

Customer Part No.:_____

Customer signature re	quired		
Company:			
Division:			
Approved by :			
Date:			_
Checked by:	David Chang	Dank	
Approved by:	Andy Yu	Dank Andy Yn	
Date:	2018/01/25		

- 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.

TST DCC Release document



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SAW Filter 3700 MHz

MODEL NO.: TA2350A

A. MAXIMUM RATING:

1. Input Power Level:

@ input port(3600~3800 MHz): 21 dB_m, Continuous wave for 1000 h @105 $^\circ\text{C}$

@ input port(3600~3800 MHz): 22 dB_m, Continuous wave for 1000 h @95 °C

@ input port(3600~3800 MHz): 24 dB_m, Continuous wave for 2 h @105 $^{\circ}$ C

@ input port(3600~3800 MHz): 25 dB_m, Continuous wave for 2 h @95 $^{\circ}$ C

2. DC voltage: 0 V

- 3. Operating Temperature: -40°C to +105°C
- 4. Storage Temperature: -40°C to +105°C
- 5. Moisture Sensitivity Level: Level 1(MSL1)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Тур.	Max.				
Center frequency	MHz	-	3700	-				
Insertion Loss (3600~3800 MHz)	IL	dB	-	4.7	5.5			
Amplitude Ripple (3600~3800 MHz)	dB _{p-p}	-	0.7	3.5				
VSWR (3600~3800 MHz)	-	-	1.8	3.0				
Group Delay Ripple (3600~3800 MHz)	ns	-	1	15				
Group Delay at Fc	ns	-	2	30				
Attenuation (Reference level from 0 dB)								
10 ~ 2550 MHz		dB	20	27	-			
2550 ~ 2690 MHz		dB	25	27	-			
2690 ~ 3000 MHz		dB	20	27	-			
3000 ~ 3400 MHz		dB	10	16	-			
4000 ~ 4050 MHz		dB	10	42	-			
4050 ~ 4400 MHz		dB	20	40	-			
4400 ~ 5200 MHz		dB	5	31	-			
5200 ~ 6000 MHz		dB	1	29	-			
Temperature Coefficient of Frequence	Ppm/ ℃	-	-80	-				

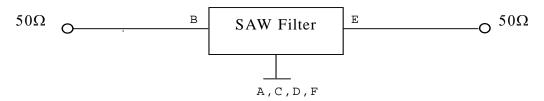
RoHS Compliant Lead free Lead-free soldering

REV. NO.:1

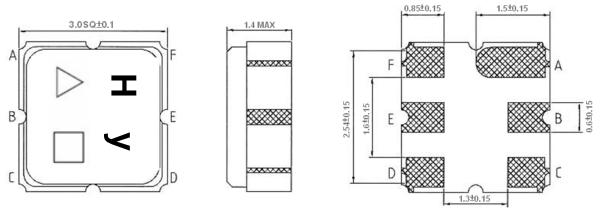
Electrostatic Sensitive Device (ESD)

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



B: Input

E: Output

A, C, D, F: Ground

Unit: mm

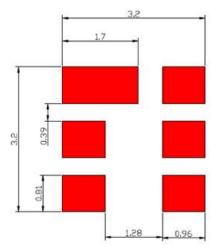
△ : Year Code (2011->1, 2012->2, ..., 2019->9, 2020->0)

□: Date Code

Date Code Table:

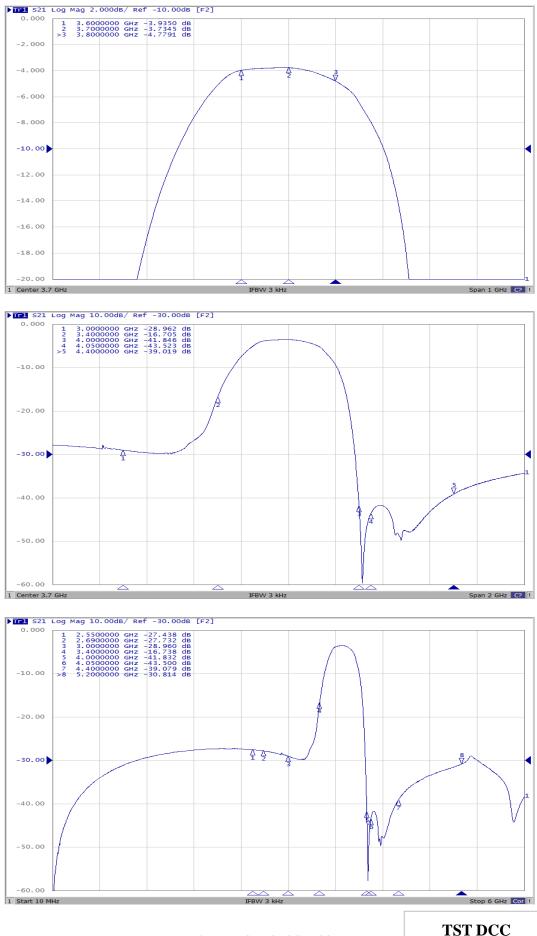
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	В	С	D	E	F	G	Н	I.	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	е	f	g	h	i	j	k	- I	m
WK40	WK41	WK42	WK43	WK44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

E. PCB Footprint:



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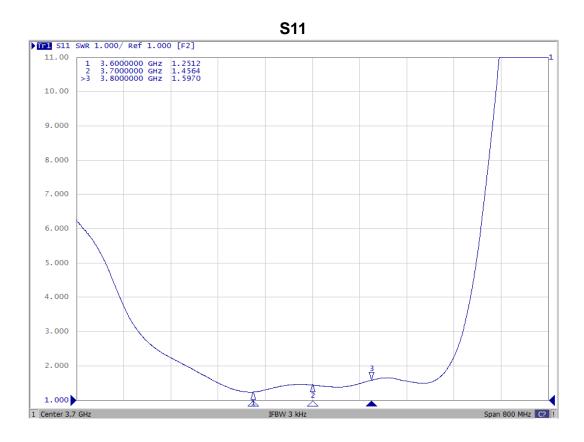
F. Frequency Characteristics:



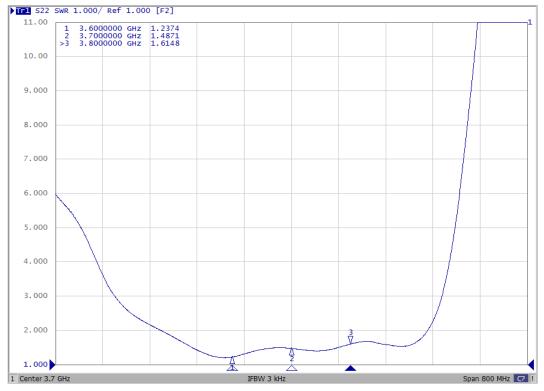
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Reflection Functions:



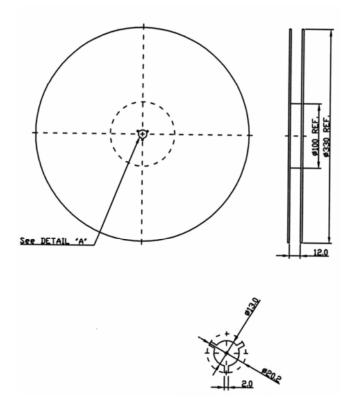




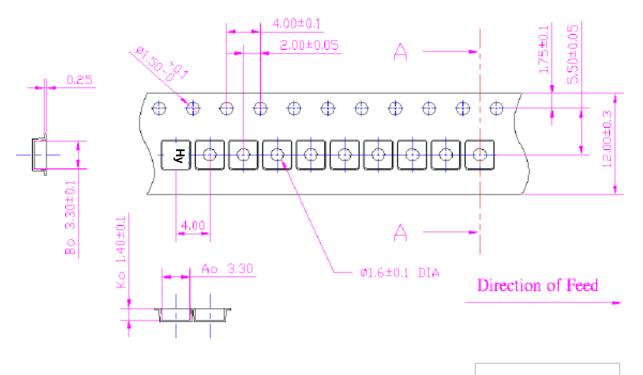
G. PACKING: (Ref. WI-75M03)

1. REEL DIMENSION

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



2. TAPE DIMENSION



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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 $260^{\circ}C+0/-5^{\circ}C$ peak (20~40sec).
- 4. Time: 2 times.

