



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

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Product Specifications Approval Sheet

Product Description: SAW Filter 3500 MHz SMD 3.0×3.0 mm (BW=200 MHz)

TST Part No.: TA2307A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ David Chang *David*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2018/07/16

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 3500 MHz

MODEL NO.: TA2307A

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level:

@ input port(3400~3600 MHz): 15 dB_m, Continuous wave for 100000 h @95 °C

@ input port(3400~3600 MHz): 22 dB_m, Continuous wave for 1000 h @95 °C

@ input port(3400~3600 MHz): 23 dB_m, Continuous wave for 2 h @95 °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)

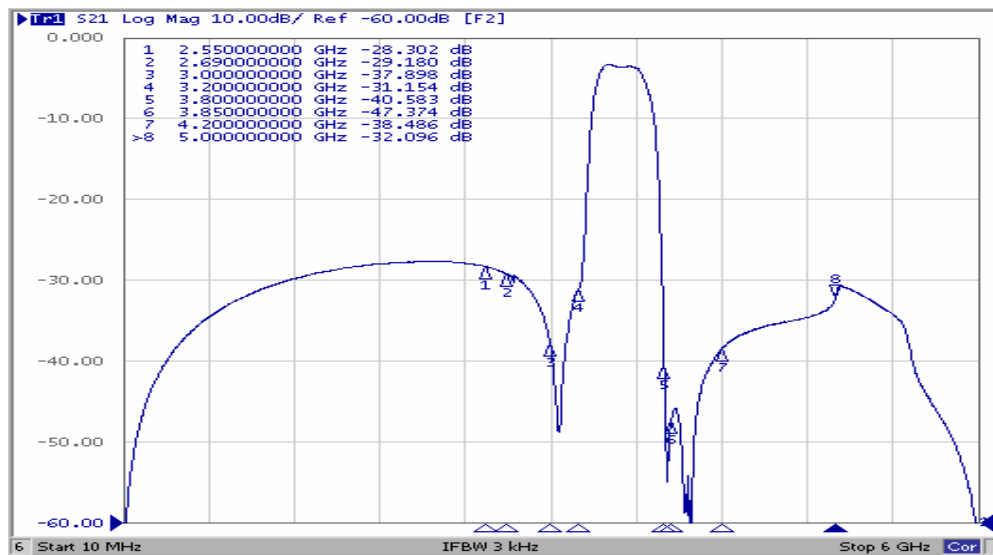
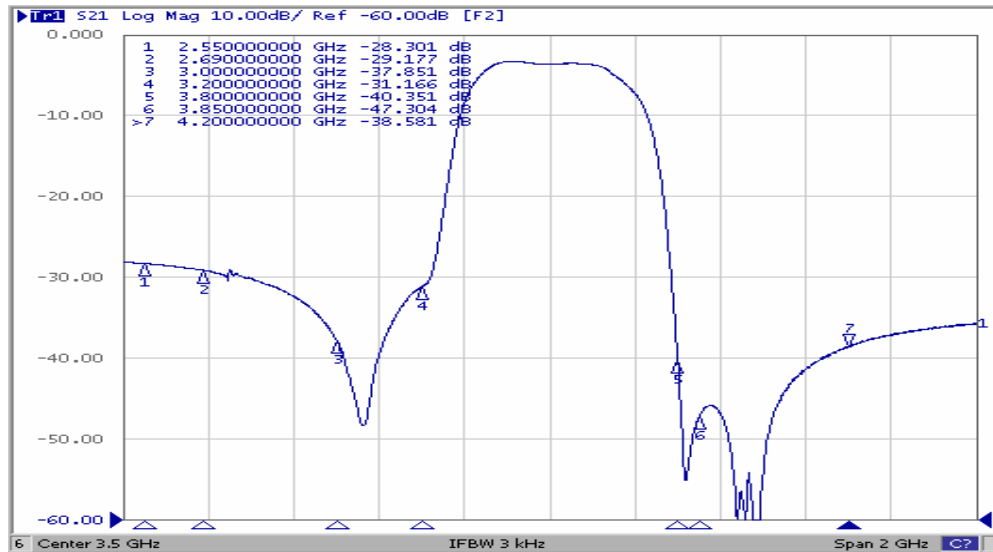
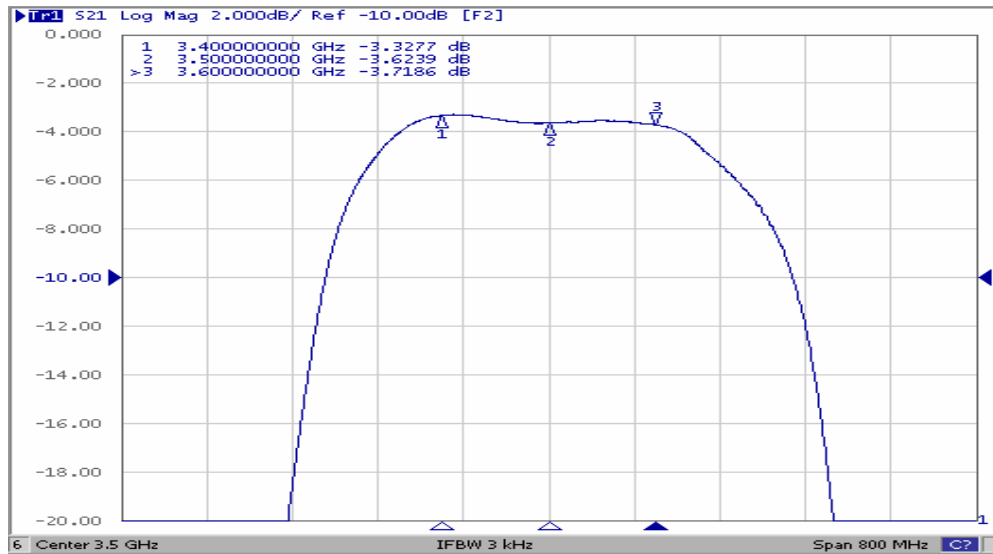
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

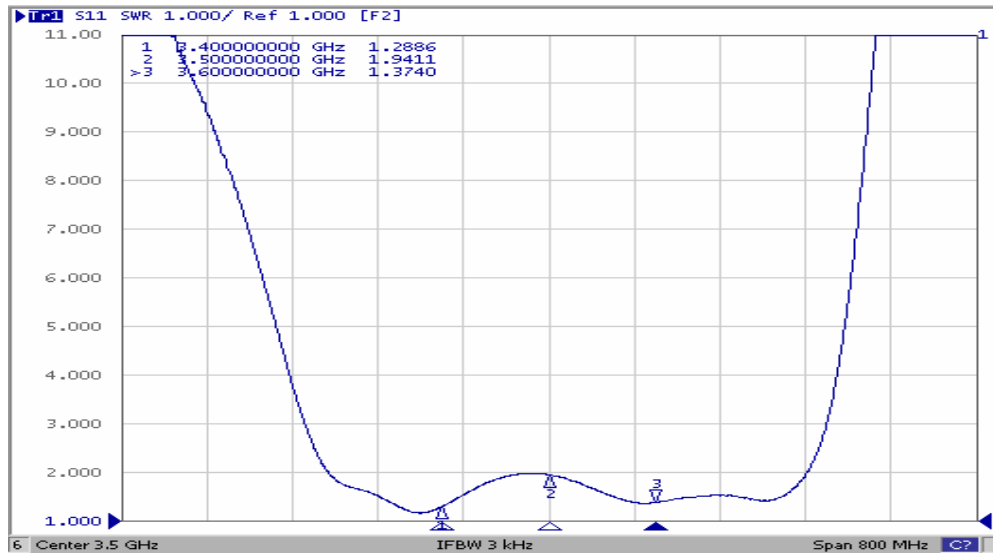
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	3500	-
Insertion loss (3400~3600 MHz) IL	dB	-	3.7	5.0
Amplitude ripple (3400~3600 MHz)	dB _{p-p}	-	0.4	3.0
VSWR (3400~3600 MHz)	-	-	2.1	2.5
Absolute group delay (3400~3600 MHz)	ns		2	30
Group delay ripple (3400~3600 MHz)	ns	-	1.5	15
Attenuation (Reference level from 0dB)				
10 ~ 2550 MHz	dB	23	27	-
2550 ~ 2690 MHz	dB	25	28	-
2690 ~ 3000 MHz	dB	25	29	-
3000 ~ 3200 MHz	dB	10	31	-
3800 ~ 3850 MHz	dB	10	40	-
3850 ~ 4200 MHz	dB	20	38	-
4200 ~ 5000 MHz	dB	25	32	-
5000 ~ 6000 MHz	dB	25	30	-
Temperature Coefficient of Frequency	Ppm/°C	-	-80	-

C. Frequency Characteristics:

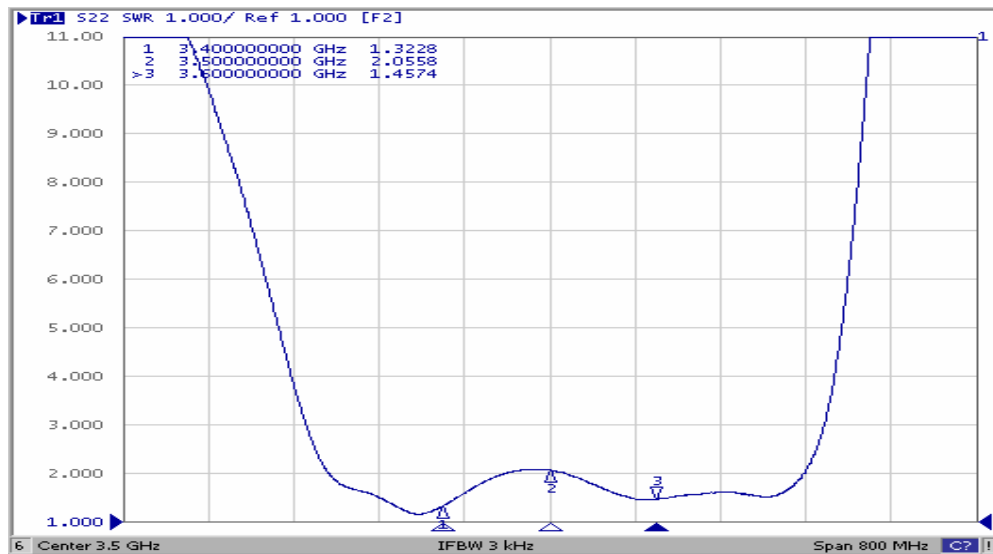


Reflection Functions:

S11

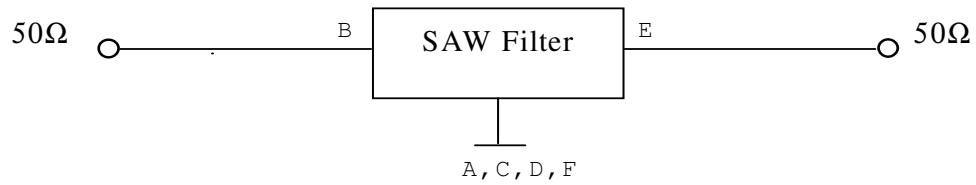


S22

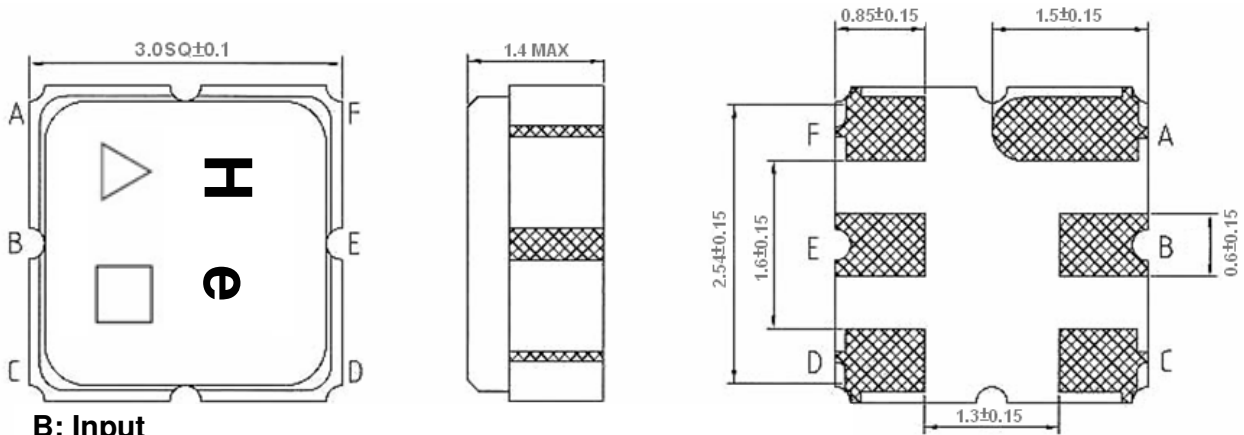


D. MEASUREMENT CIRCUIT:

HP Network analyzer



E. OUTLINE DRAWING:



B: Input

E: Output

A, C, D, F: Ground

Unit: mm

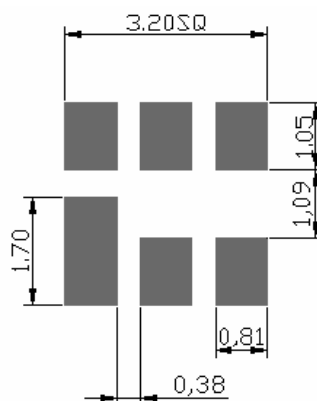
△ : Year Code (2011->1, 2012->2, ..., 2019->9, 2020->0)

□ : Date Code

Date Code Table:

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	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	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

F. PCB Footprint:



TAI-SAW TECHNOLOGY CO., LTD.

TST DCC
Release document

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



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.

