



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Name: SAW Filter 2650 MHz SMD 3.0x3.0 mm(BW=20MHz)

TST Parts No.:TA1684B (This part is compliant with AEC-Q200)

Customer Parts No.:_____

Customer signature required

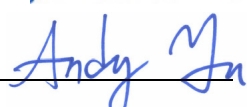
Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Anne Chen 

Approved by:_____ Andy Yu 

Date:_____ 11/17/2017

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 2650 MHz 20MHz BW SMD 3.0x3.0 mm

MODEL NO.: TA1684B

REV. 1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C (1)
4. Storage Temperature: -40°C to +125°C
5. Moisture Sensitivity Level: Level 1

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

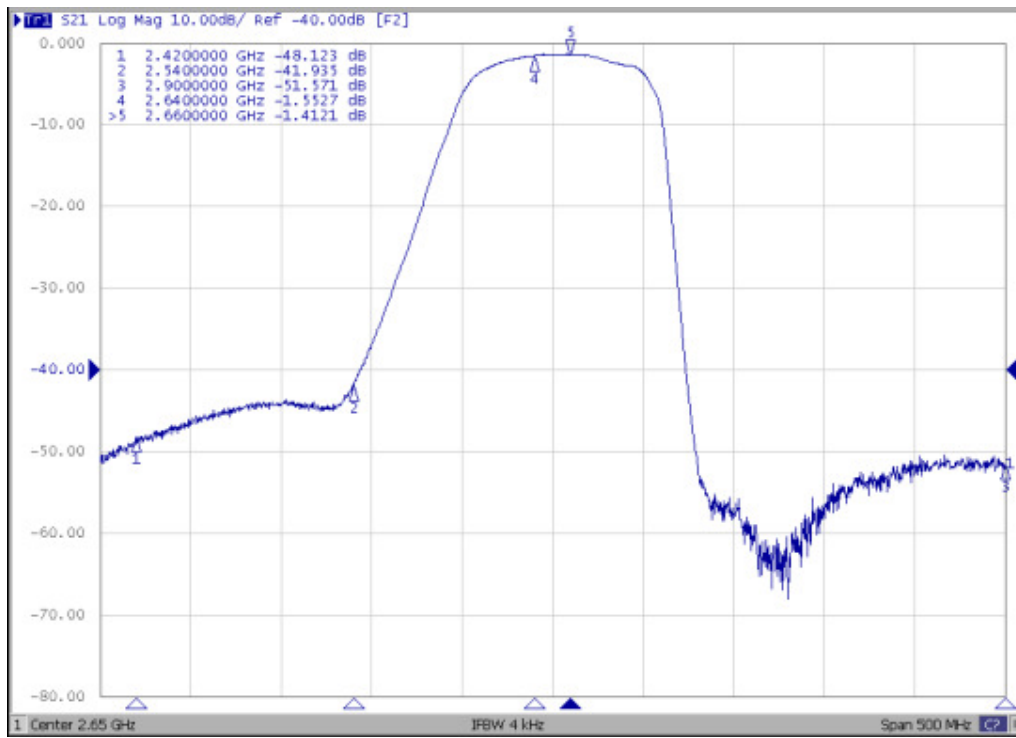
Item	Unit	Min.	Type.(2)	Max.	Note
Center Frequency Fc	MHz	-	2650	-	-
Max. Insertion Loss (2640~2660 MHz) IL	dB	-	1.5	3.0	-
Passband ripple (2640~2660 MHz)	dB	-	0.4	1.5	-
S11 & S22 VSWR		-	1.3	2.1	
Attenuation					
10~2380 MHz	dB	33	37	-	-
2380~2420 MHz	dB	45	48	-	-
2520~2540 MHz	dB	35	41	-	-
3000~4500 MHz	dB	30	38	-	-
Package size	mm	SMD 3.0x3.0			
Temp Coefficient	ppm/K	-36			-

Notes:

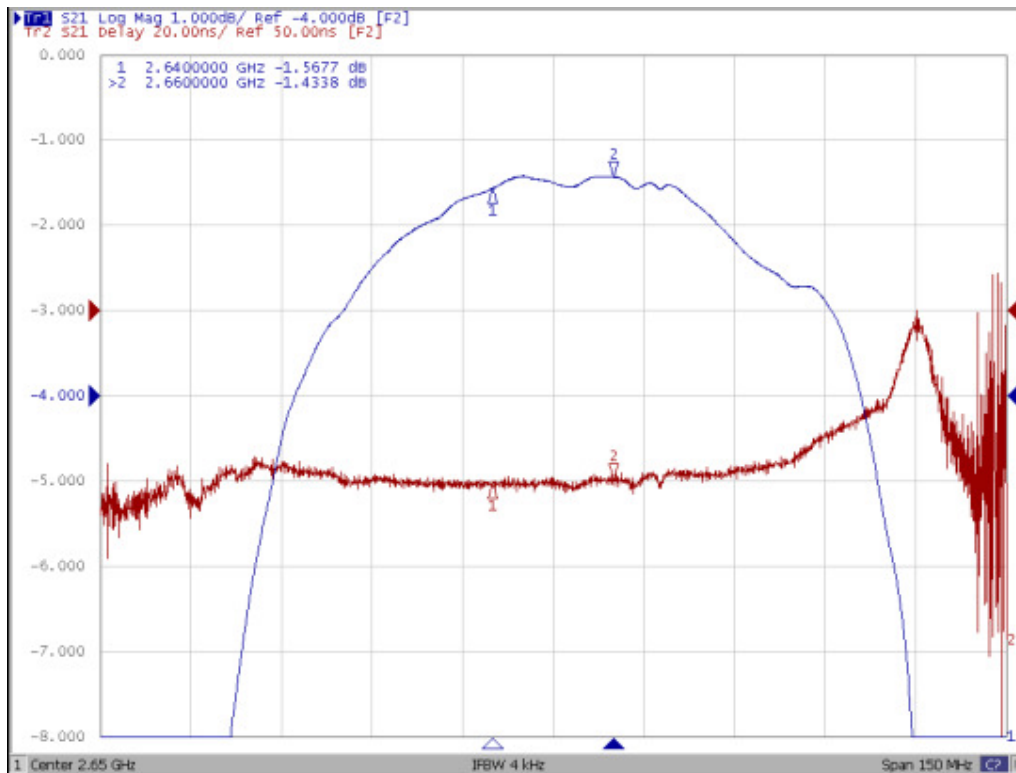
- (1). In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature.
- (2). Typical values are based on average measurements at room temperature.

C. Frequency Characteristics :

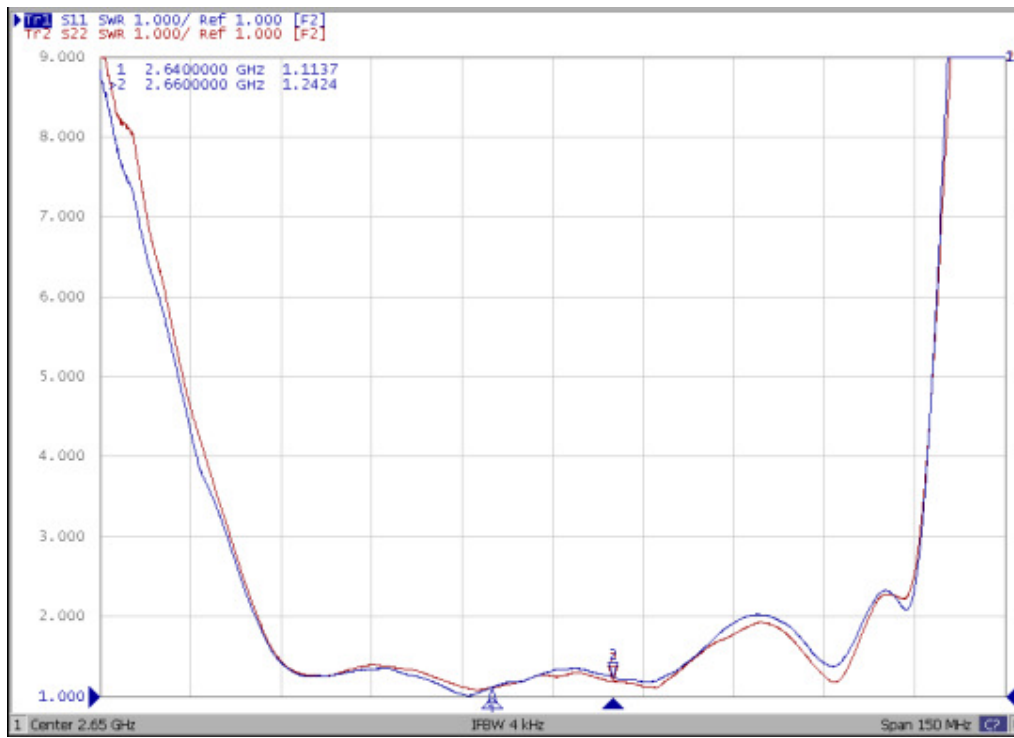
(1) S21 Response: (span 500MHz)



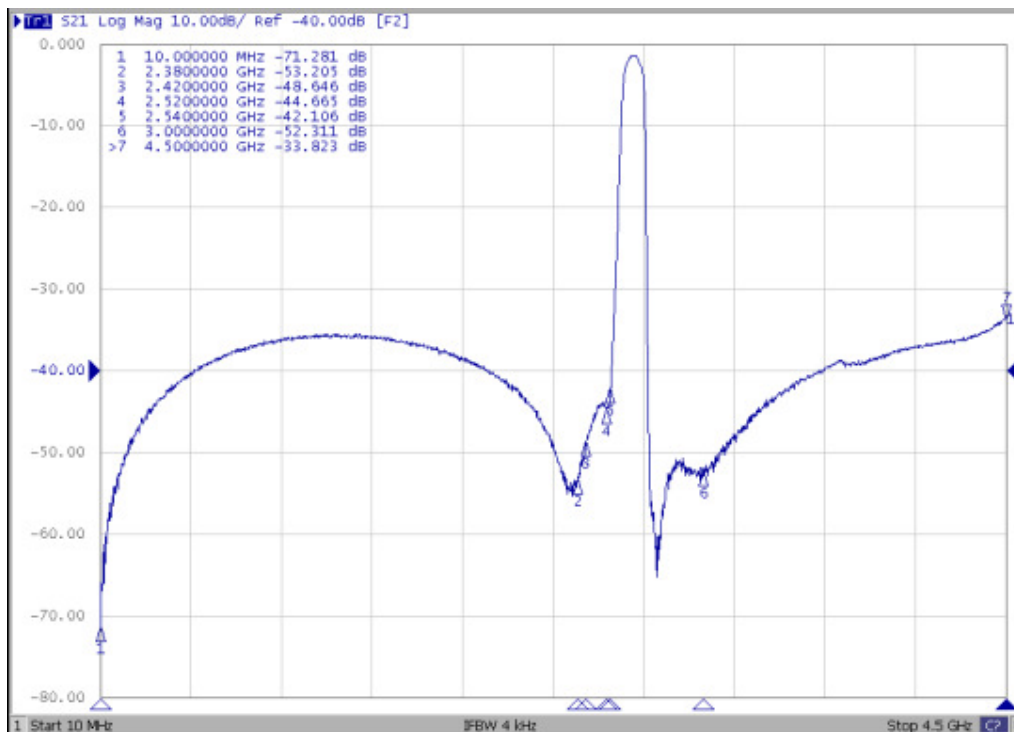
(2) Pass band Response: (span 150MHz)



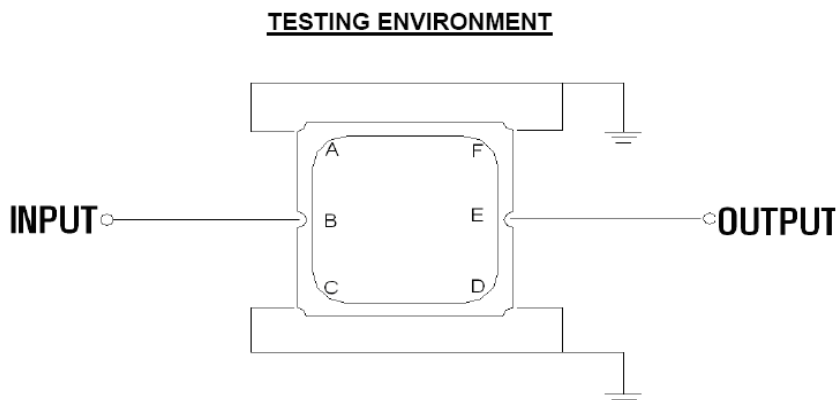
(3) S11 & S22 VSWR Response:(span 150MHz)



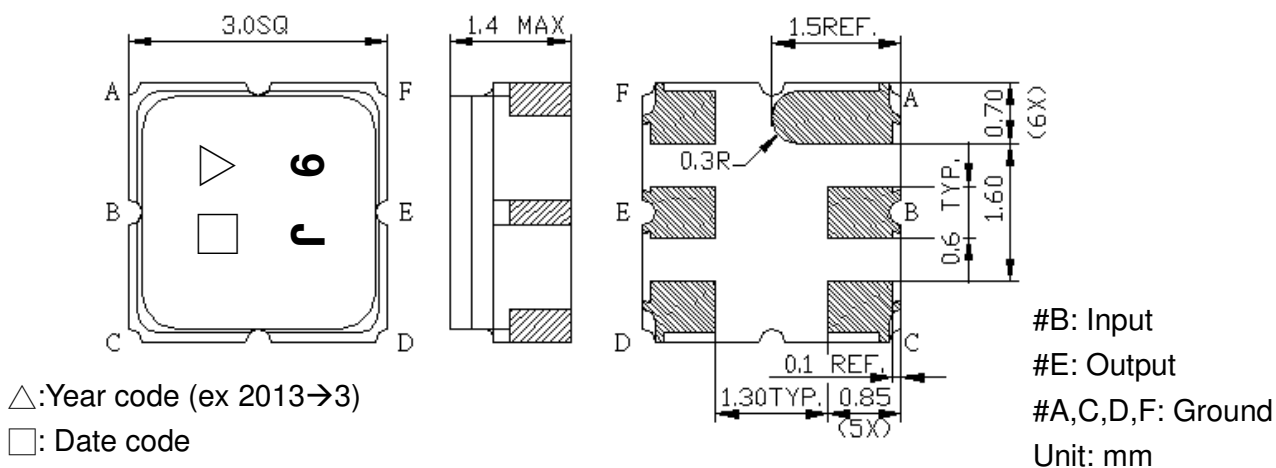
(4) wide band Response: (span 4.5GHz)



D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:



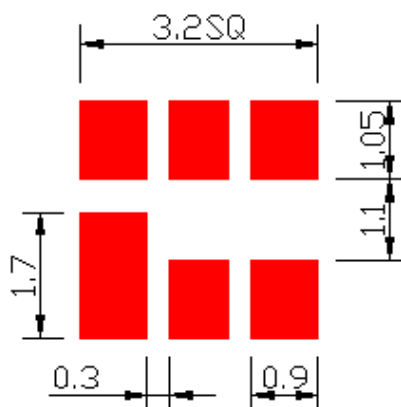
△:Year code (ex 2013→3)

□: 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:



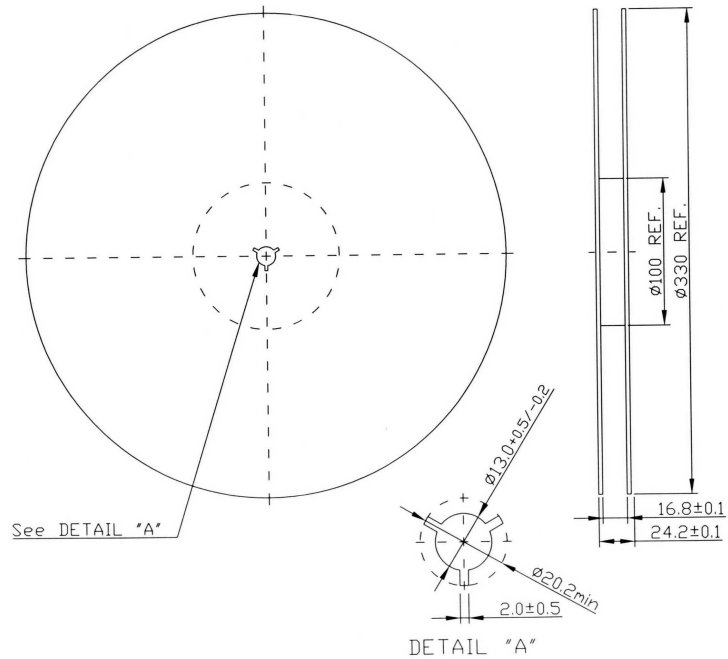
TAI-SAW TECHNOLOGY CO., LTD.

TST DCC
Release document

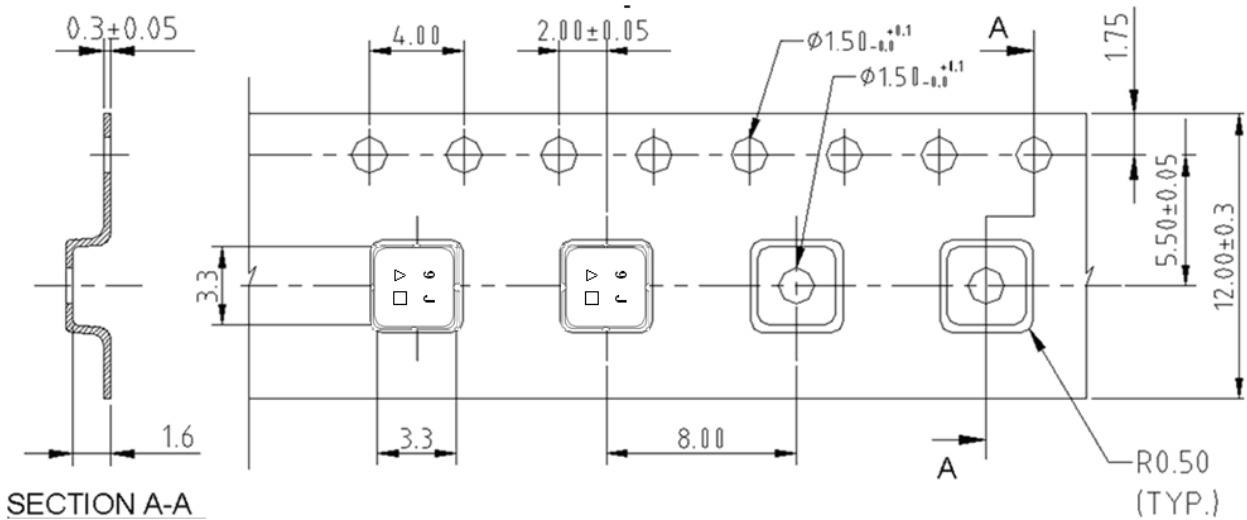
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at $150\sim 180^{\circ}\text{C}$ 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 $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

