



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 Name: SAW Filter 2345 MHz 50MHz BW SMD 3.0x3.0 mm

TST Parts No.:TA1770A

Customer Parts No.:_____

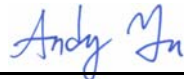
Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Yu 

Approval by:_____ Bob Chau 

Date:_____ 2014/07/10

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 2345 MHz 50MHz BW SMD 3.0x3.0 mm

MODEL NO.: TA1770A

REV. 1.0

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C (1)
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

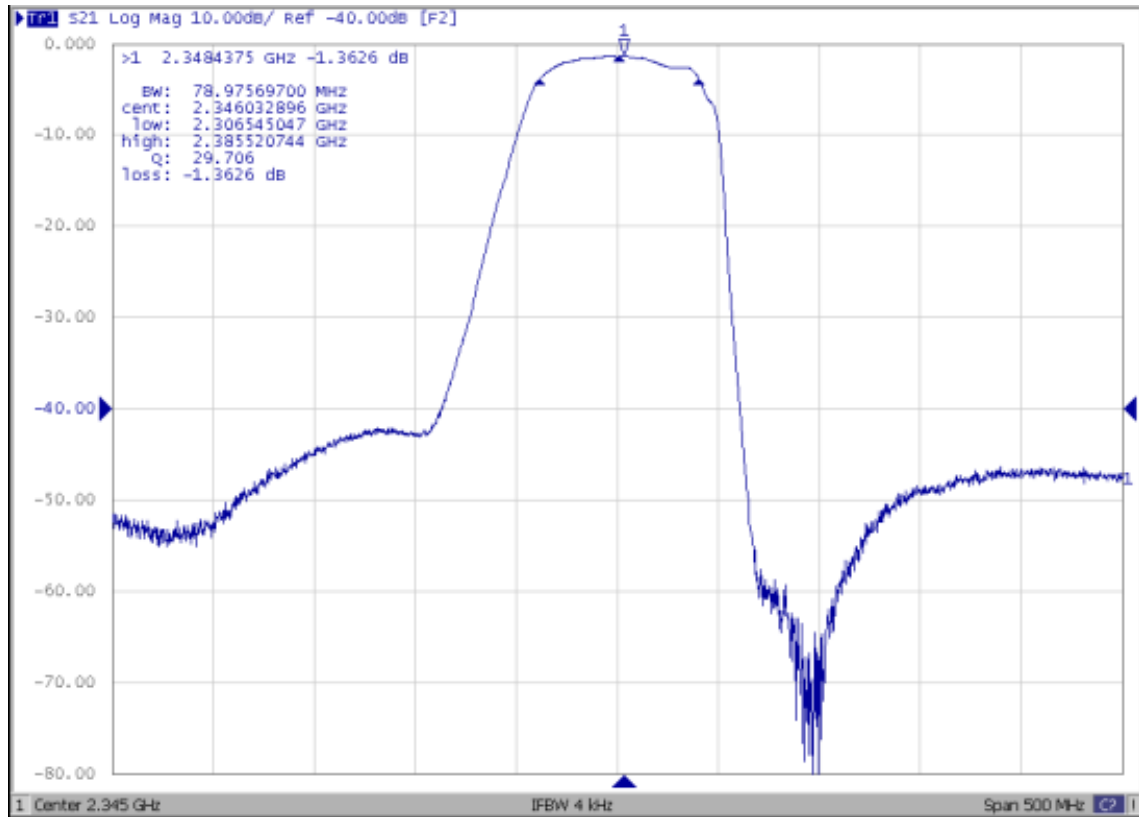
Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	2345	-	-
Max. Insertion Loss (2320 ~ 2370 MHz) IL	dB	-	2.5	4.0	-
Passband ripple (2320 ~ 2370 MHz)	dB	-	1.0	2.0	-
S11&S22 VSWR (2320 ~ 2370 MHz)			2.3	2.5	
Source Impedance (single ended)	Ω	-	50	-	-
Load Impedance (single ended)	Ω	-	50	-	-
Attenuation					
10 ~ 2190 MHz	dB	30	36	-	-
2190 ~ 2290 MHz	dB	5	14	-	-
2400 ~ 2460 MHz	dB	15	24	-	-
2460 ~ 3000 MHz	dB	35	46	-	-
Package size	mm	3.0x3.0			

Notes:

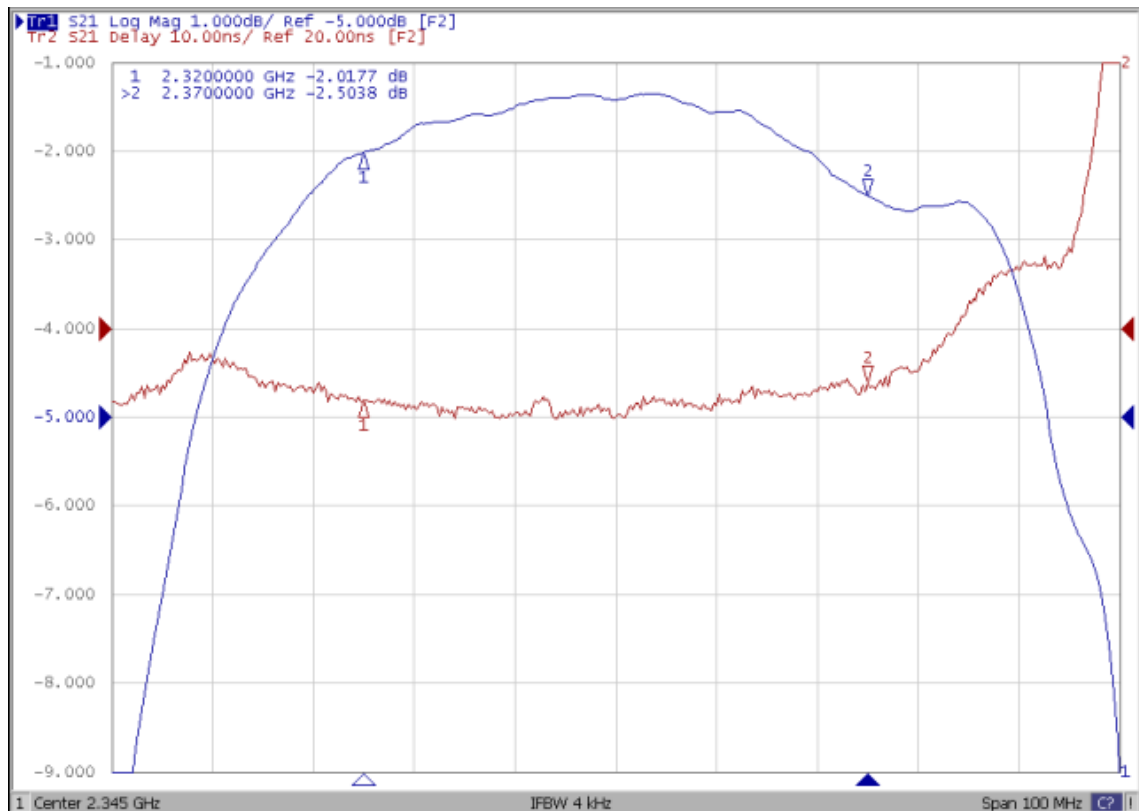
- (1). In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature.
- (2). Typical values are based on average measurements at room temperature.

C. Frequency Characteristics :

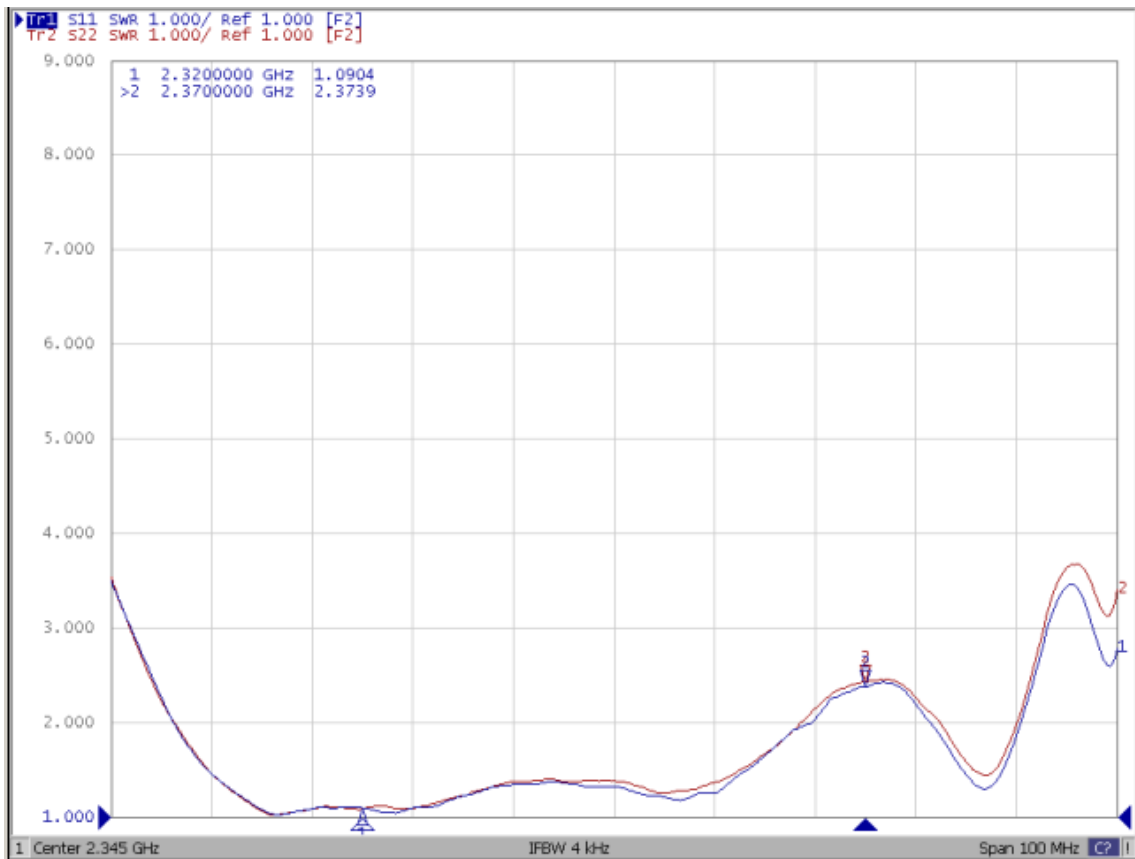
(1) S21 Response: (span 500MHz)



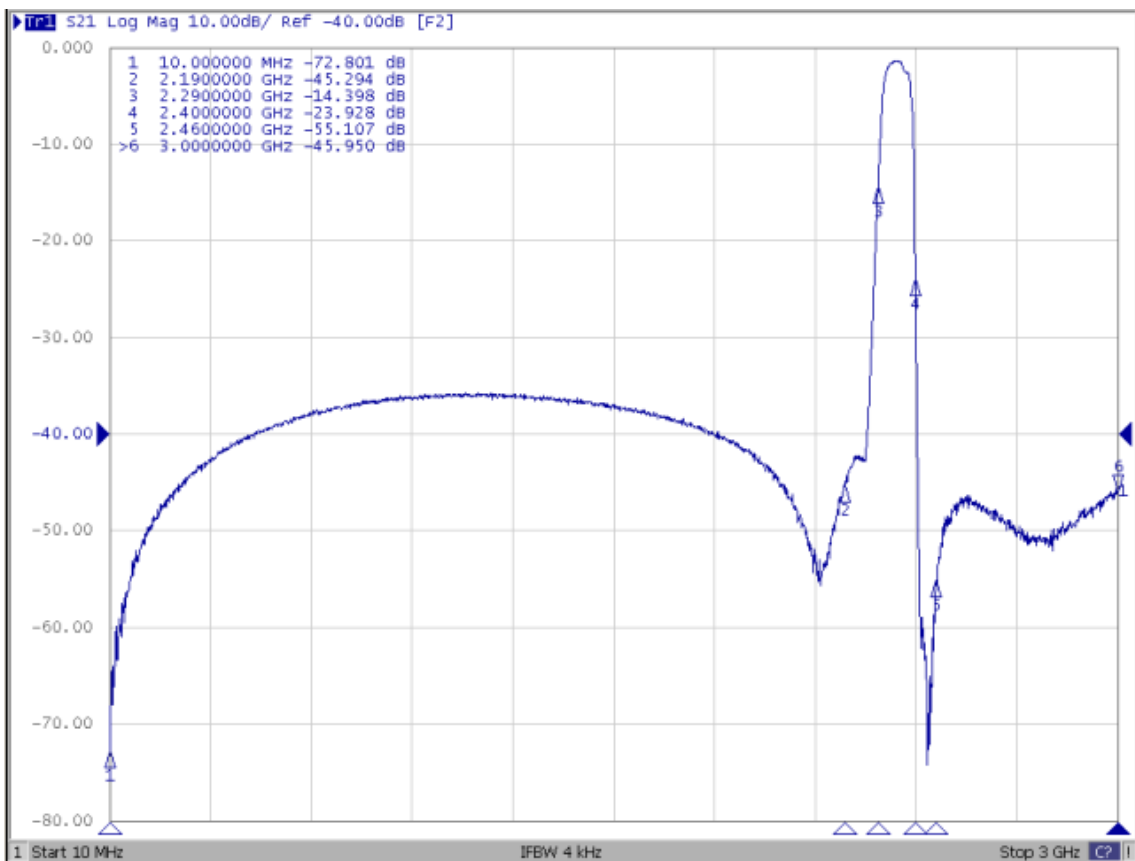
(2) Pass band Response:(span 100MHz)



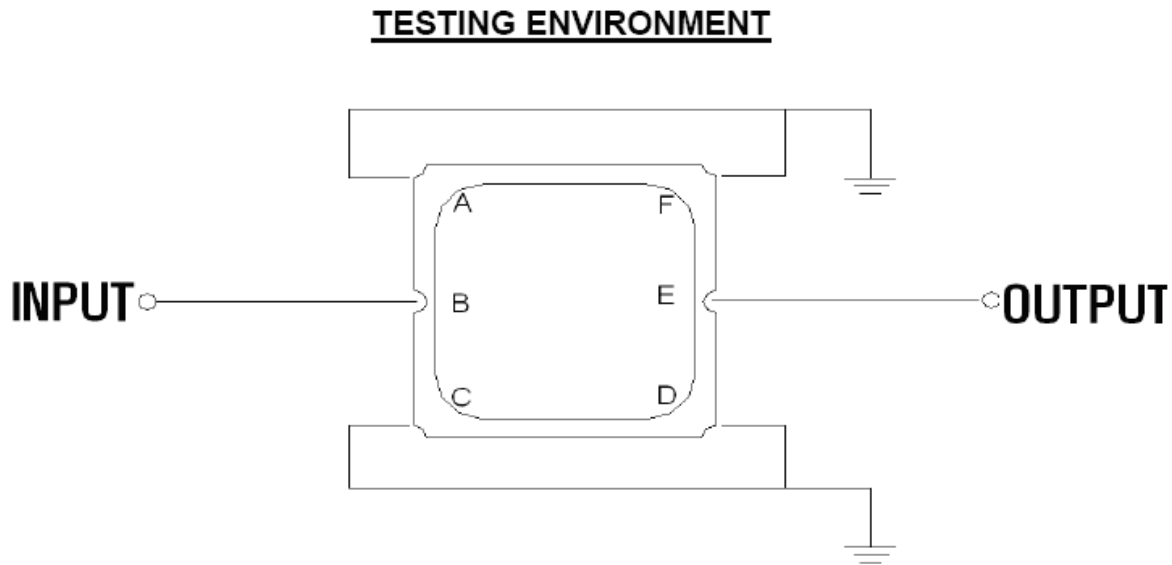
(3) S11 & S22 VSWR Response:(span 100MHz)



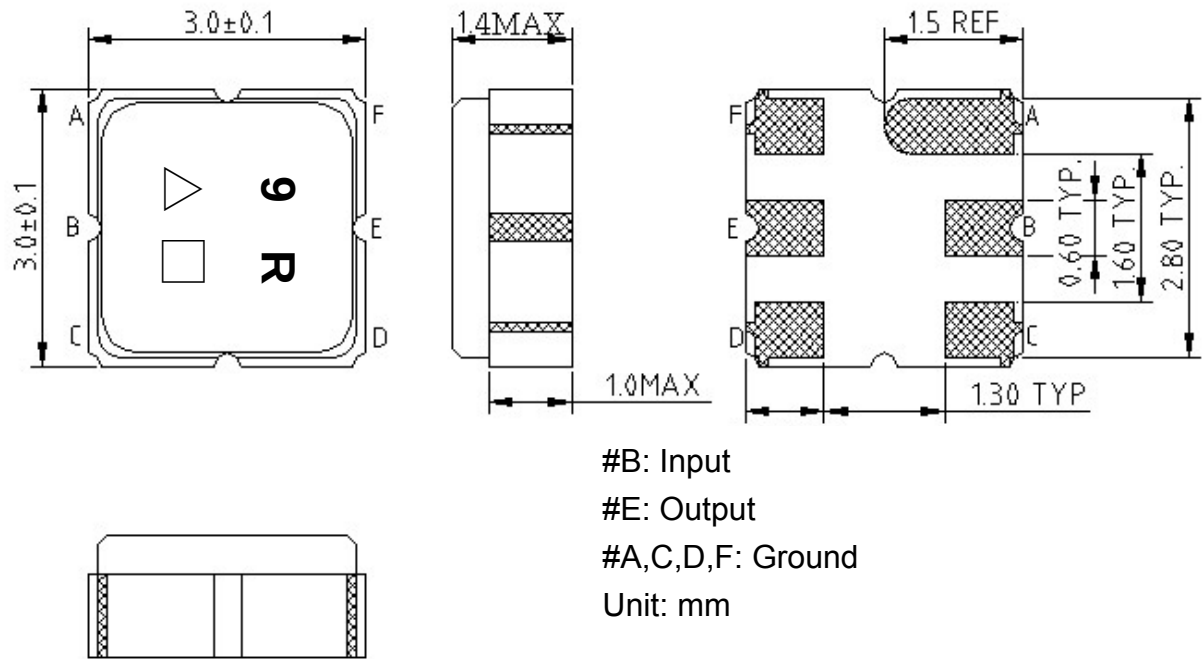
(4) wide band Response: (span 3.0GHz)



D. MEASUREMENT CIRCUIT:



E.OUTLINE DRAWING:



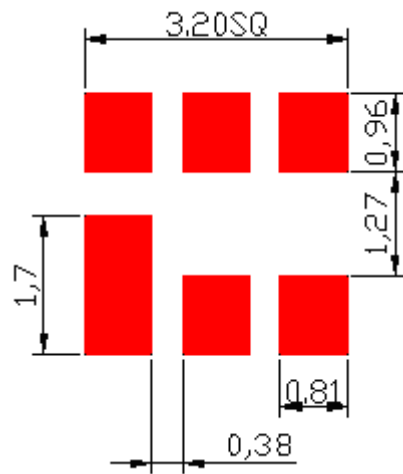
$\triangle$:Year code (ex 2014→4)

$\square$: 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

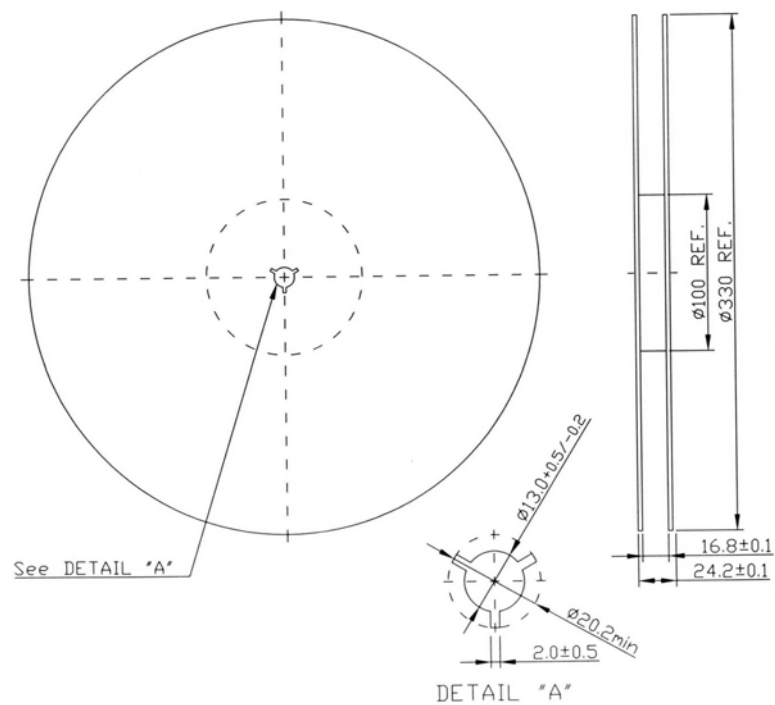
F. PCB FOOTPRINT:



G. PACKING:

1. REEL DIMENSION

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



0.3±0.05

1.6

3.3

4.00

2.00±0.05

8.00

3.3

1.75

5.50±0.05

12.00±0.3

Ø1.50^{+0.1}_{-0.0}

Ø1.50^{+0.1}_{-0.0}

R0.50 (TYP.)

SECTION A-A

The graph displays the temperature of a substance over time. The y-axis represents Temperature in degrees Celsius, ranging from 20 to 280. The x-axis represents Time in seconds, ranging from 0 to 360. The curve shows a heating phase from 0 to 220 seconds, reaching a maximum temperature of 260°C, followed by a cooling phase from 220 to 360 seconds, ending at 110°C.

Time (Sec)	Temp (Deg C)
0	25
20	28
40	145
60	150
80	158
100	155
120	170
140	178
160	195
180	220
200	250
220	260
240	250
260	175
280	148
300	148
320	135
340	120
360	110