



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: TCSAW Filter 2332.5 MHz SMD 1.1X0.9 mm (BW=25MHz)

TST Parts No.: TA2392ATCA

Customer Parts No.: _____

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

Checked by: _____ Bob Chau 

Approval by: _____ Andy Yu 

Date: _____ 2021/05/28

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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TCSAW Filter 2332.5MHz BW25MHz SMD 1.1x0.9mm

MODEL NO.:TA2392ATCA

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -40°C to +105°C
4. Storage Temperature: -40°C to +125°C
5. ESD Machine Mode : 50V
6. ESD Human Body Mode : 100V
7. Moisture Sensitive Level (MSL): Level 2a



HiQ Saw

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Temperature range for specification : $T_{spec} = -40^{\circ}C$ to $+105^{\circ}C$

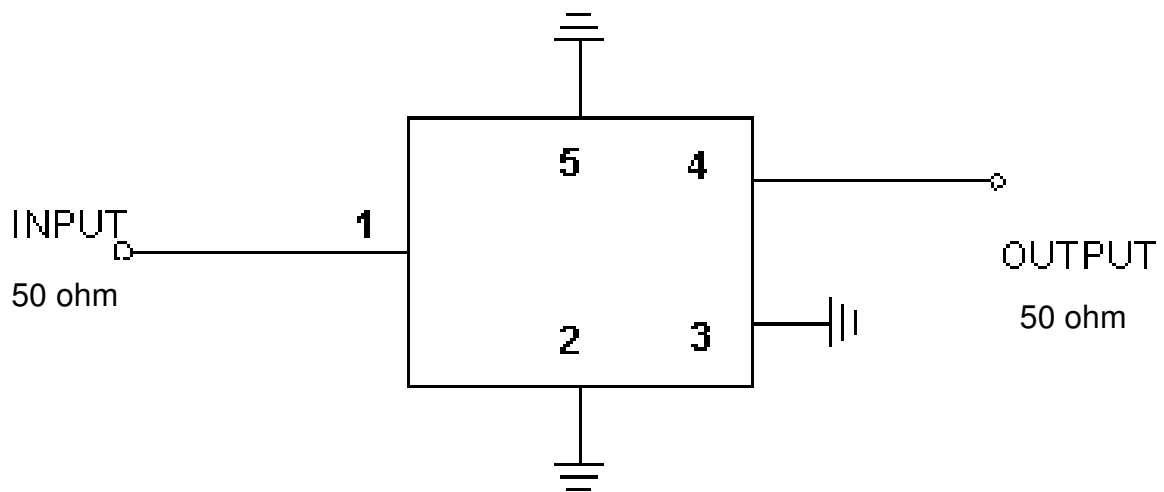
Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

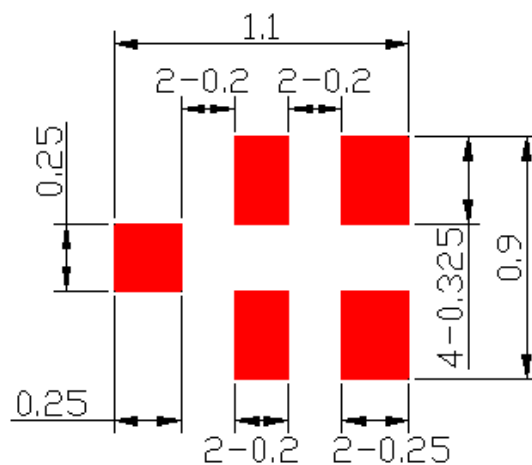
Item	Unit	Min.	Typ.	Max.	
Center Frequency	Fc	MHz	-	2332.5	-
Min. Insertion Loss (2320~2345 MHz)	α	dB	-	3.1	-
Max. Insertion Loss (2320~2345 MHz)	IL	dB	-	4.6	7
Amplitude Ripple (2320~2324.5 MHz)		dB _{p-p}	-	1.3	2.3
Amplitude Ripple (2324.5~2328.2 MHz)		dB _{p-p}	-	0.6	1.2
Amplitude Ripple (2328.2~2332.5 MHz)		dB _{p-p}	-	0.2	1.2
Amplitude Ripple (2332.5~2334.38 MHz)		dB _{p-p}	-	0.4	1.2
Amplitude Ripple (2334.38~2336.25 MHz)		dB _{p-p}	-	0.2	1.2
Amplitude Ripple (2336.25~2337.75 MHz)		dB _{p-p}	-	0.2	1.2
Amplitude Ripple (2337.75~2341.25 MHz)		dB _{p-p}	-	0.3	1.2
Amplitude Ripple (2341.25~2343.125 MHz)		dB _{p-p}	-	0.2	1.2
Amplitude Ripple (2343.125~2345 MHz)		dB _{p-p}	-	0.5	2.1
VSWR (2320~2345 MHz)			-	1.8	2.1
Attenuation (refer to min. insertion loss α)					
100 ~ 800 MHz		dB	35	65	-
800 ~ 2100 MHz		dB	31	42	-
2100 ~ 2275 MHz		dB	32	37	-
2275 ~ 2288 MHz		dB	30	32	-

2288 ~ 2300	MHz	dB	25	32	-
2300 ~ 2310	MHz	dB	15	23	-
2310 ~ 2315	MHz	dB	3.5	7.5	-
2350 ~ 2355	MHz	dB	3.5	5.5	-
2355 ~ 2365	MHz	dB	13	17	-
2365 ~ 2377	MHz	dB	39	42	-
2377 ~ 2390	MHz	dB	35	39	-
2390 ~ 3000	MHz	dB	28	30	-
Temperature Coefficient		ppm/°C	-	-6.5	-

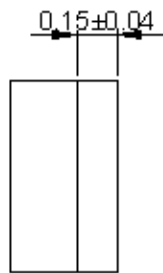
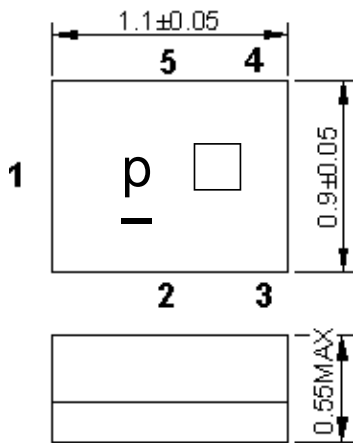
C. MEASUREMENT CIRCUIT:



D. PCB Footprint :



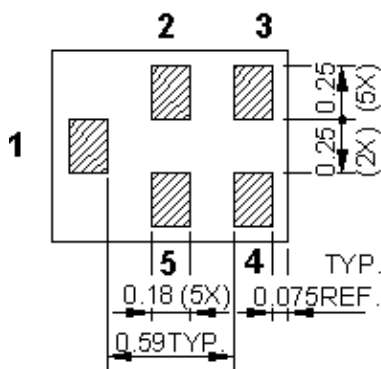
E.OUTLINE DRAWING:



All tolerances are +/-0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm

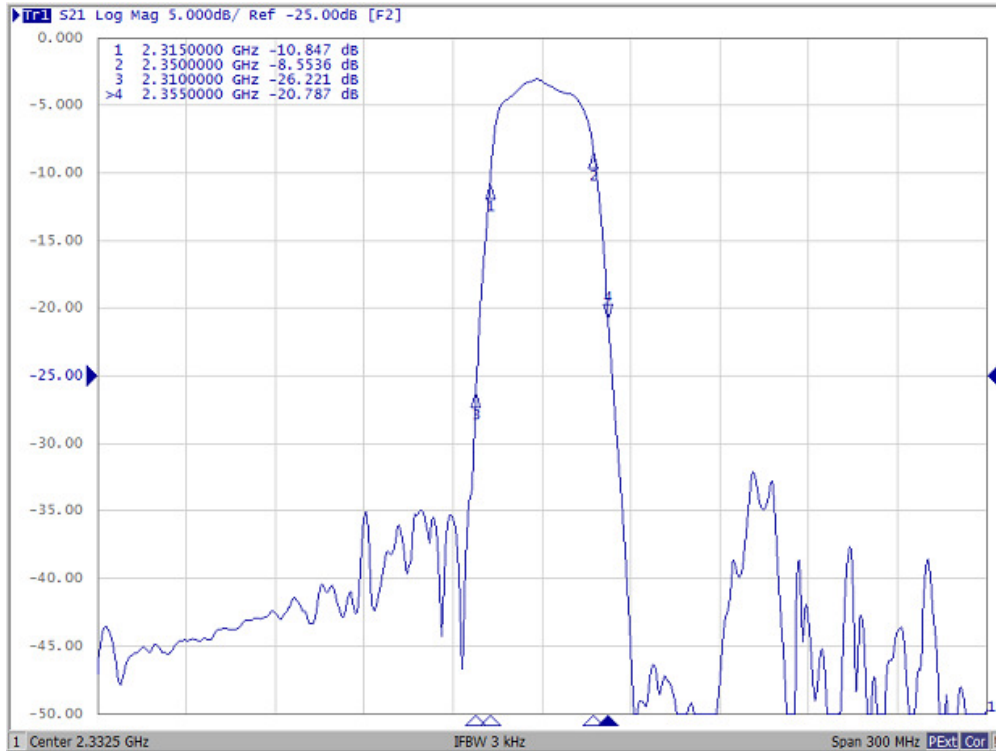
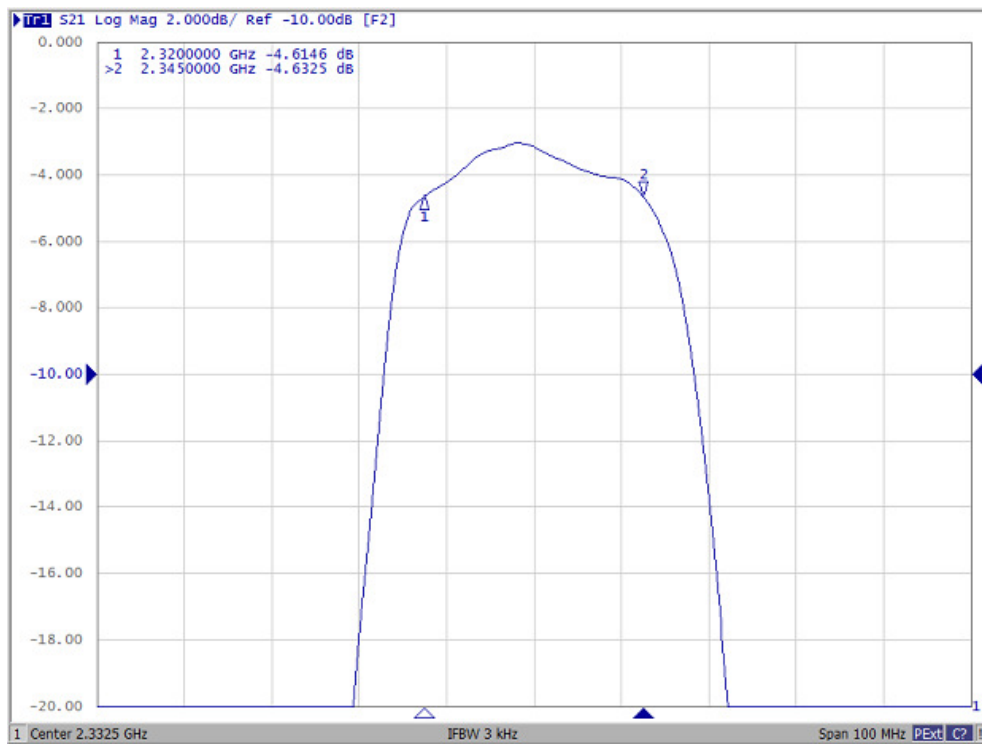


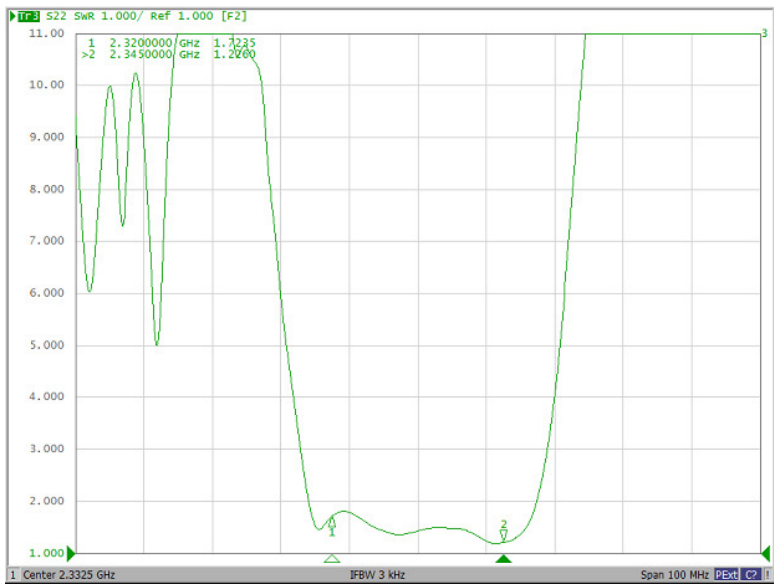
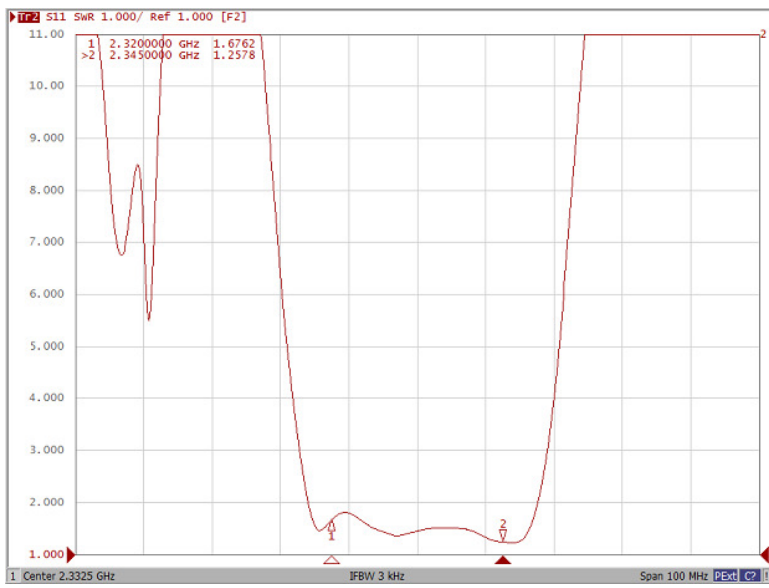
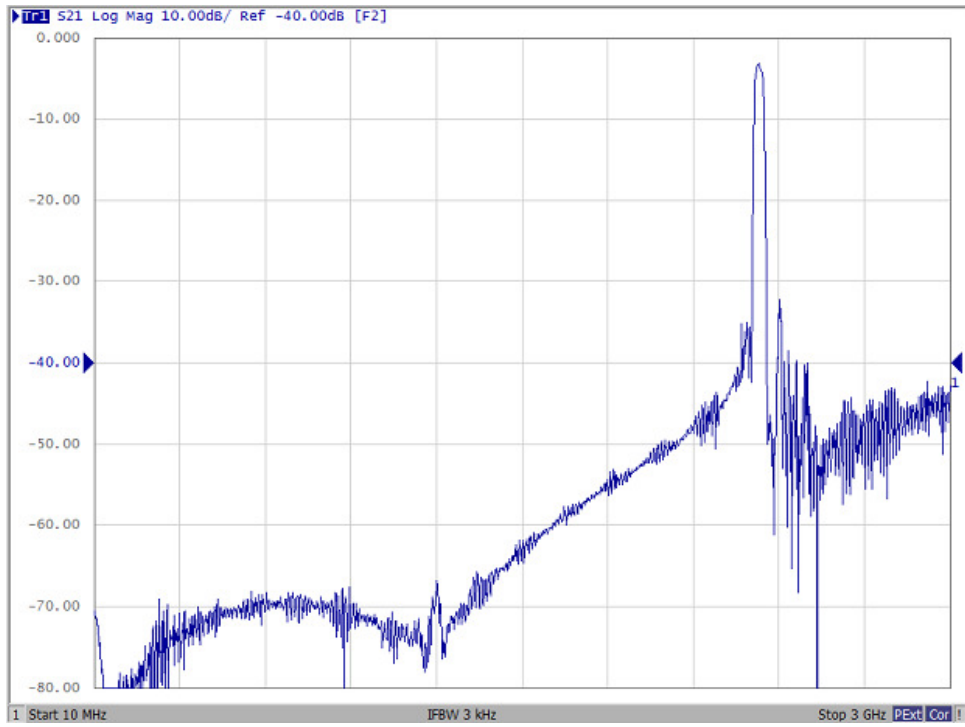
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013/2021	A	B	C	D	E	F	G	H	J	K	L	M
2014/2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015/2023	a	b	c	d	e	f	g	h	j	k	l	m
2016/2024	n	p	q	r	s	t	u	v	w	x	y	z
2017/2025	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018/2026	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019/2027	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>i</u>	<u>k</u>	<u>l</u>	<u>m</u>
2020/2028	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

F. Frequency Characteristics:

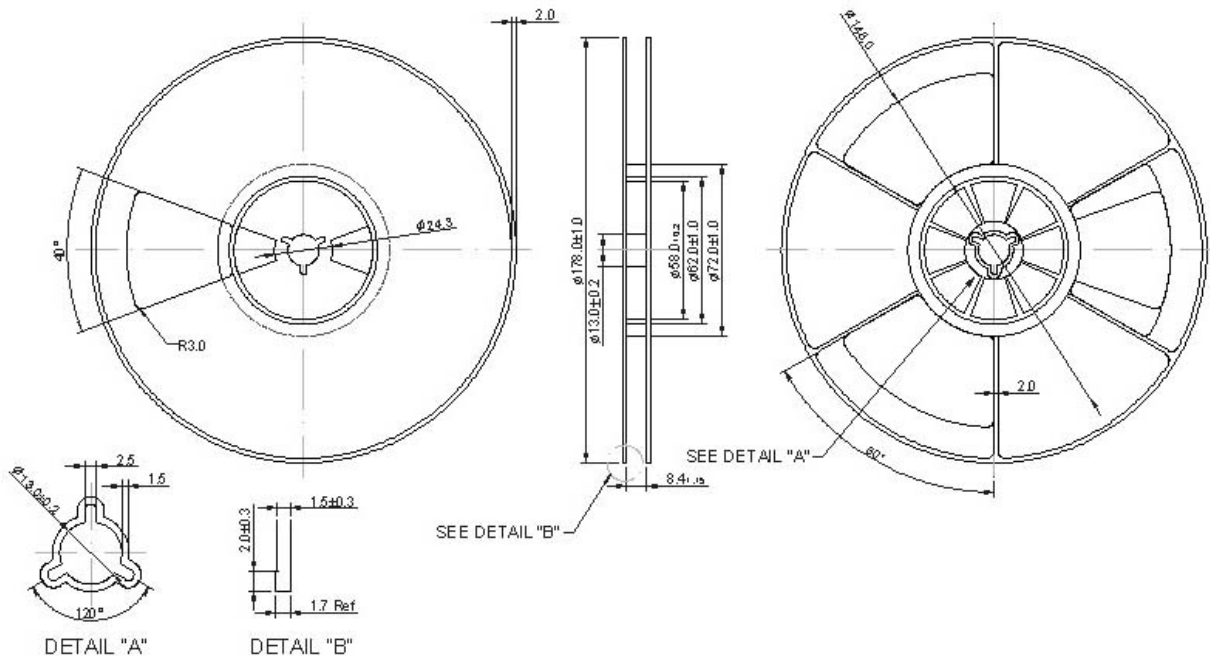




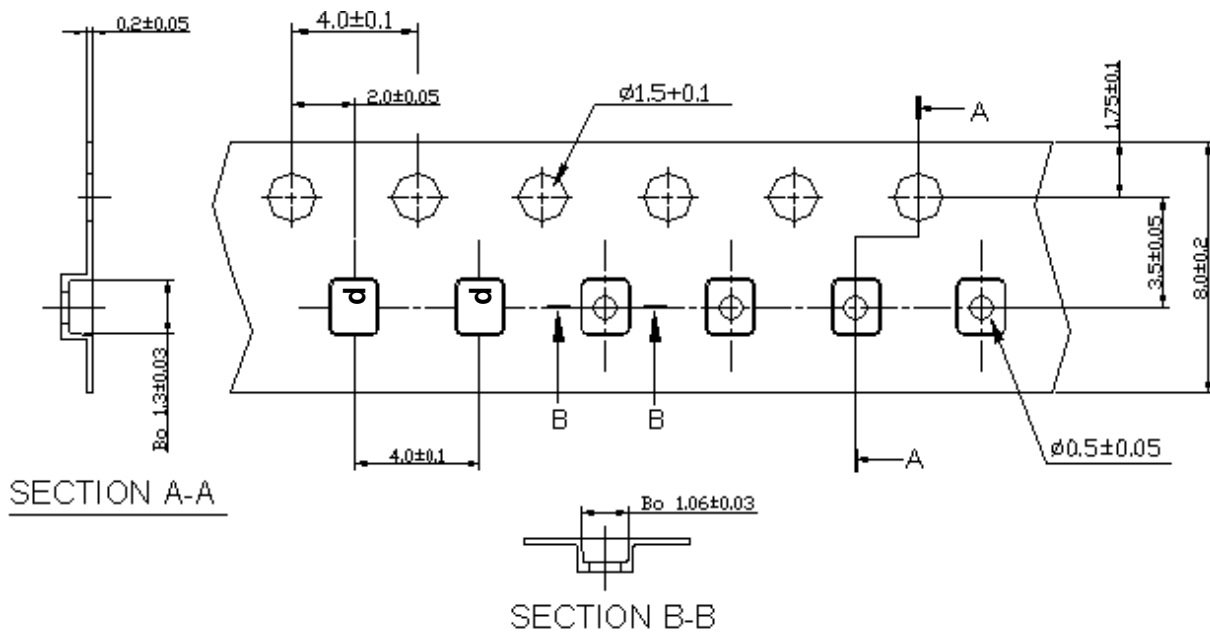
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°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 245~260°C peak (min. 10sec).
4. Time : 2 times.

