



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 Description: SAW Filter 403.5 MHz SMD 1.4X1.1 mm (BW=3MHz)

TST Part No.: TA1774A

Customer Part No.: _____

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

Checked by: _____ Hayley Chou *Hayley Chou*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2017/07/21

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 403.5 MHz

MODEL NO.:TA1774A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 17 dBm
2. DC Voltage : 3 V
3. Operating Temperature: 0°C to +55 °C
4. Storage Temperature: -20°C to +70 °C

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

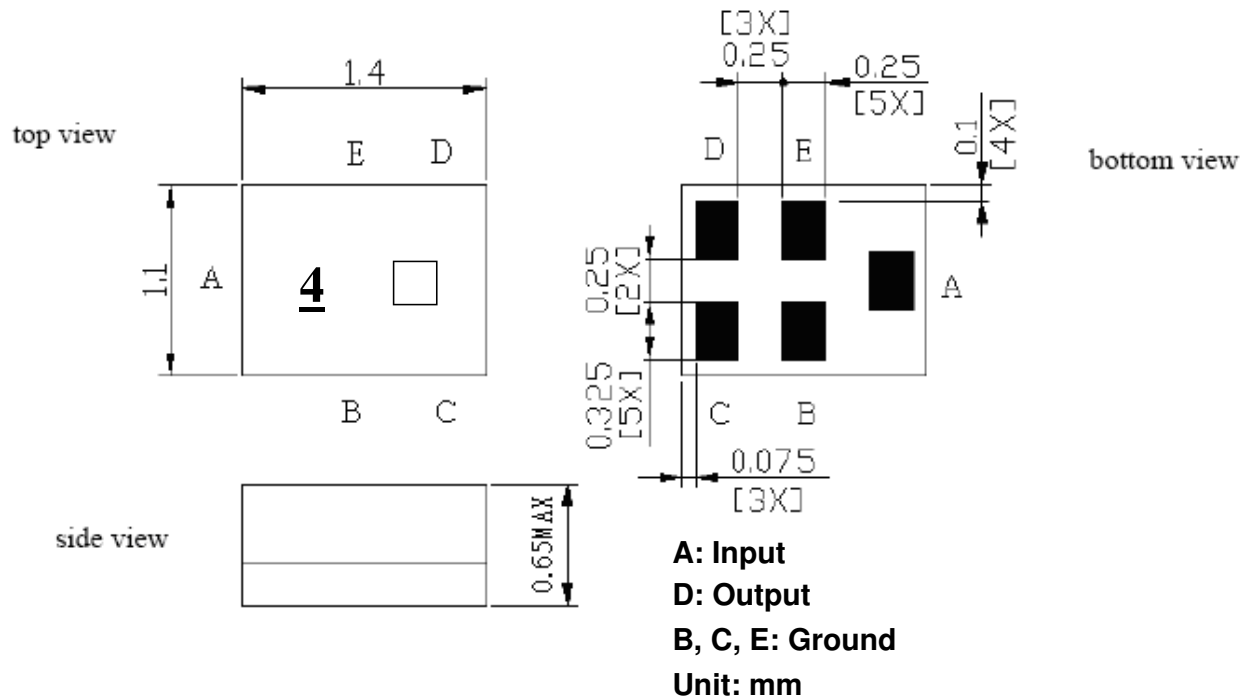
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$ (single)

Terminating load impedance : $Z_L = 200 \Omega$ (single)

Item	Unit	Min.	Type.	Max.	Note
Center Frequency F_c	MHz	-	403.5	-	-
Insertion Loss (402~405 MHz) IL	dB	1.0	1.8	2.5	-
-1.5dB Band Width BW	dB	3.0	6.3	-	-
Amplitude ripple (402~405 MHz)	dB	-	0.4	1.5	
Input VSWR (402~405 MHz)	-	-	1.3	2.0	-
Output VSWR (402~405 MHz)	-	-	1.4	2.0	-
Attenuation (Reference level from 0 dB)					
D.C ~ 339.5 MHz	dB	38	49	-	-
339.5 ~ 358.5 MHz	dB	38	57	-	-
358.5 ~ 383.5 MHz	dB	37	50	-	-
423.5 ~ 448.5 MHz	dB	30	37	-	-
448.5 ~ 467.5 MHz	dB	35	63	-	-
467.5 ~ 500 MHz	dB	35	60	-	-
500 ~ 700 MHz	dB	33	56	-	-
700 ~ 1000 MHz	dB	33	47	-	-
1000 ~ 1210 MHz	dB	35	42	-	-
1210 ~ 2500 MHz	dB	35	42	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-	-

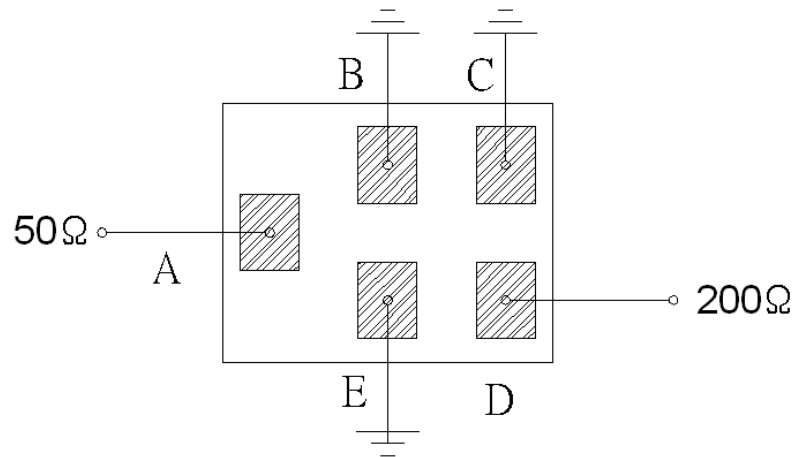
C.OUTLINE DRAWING:



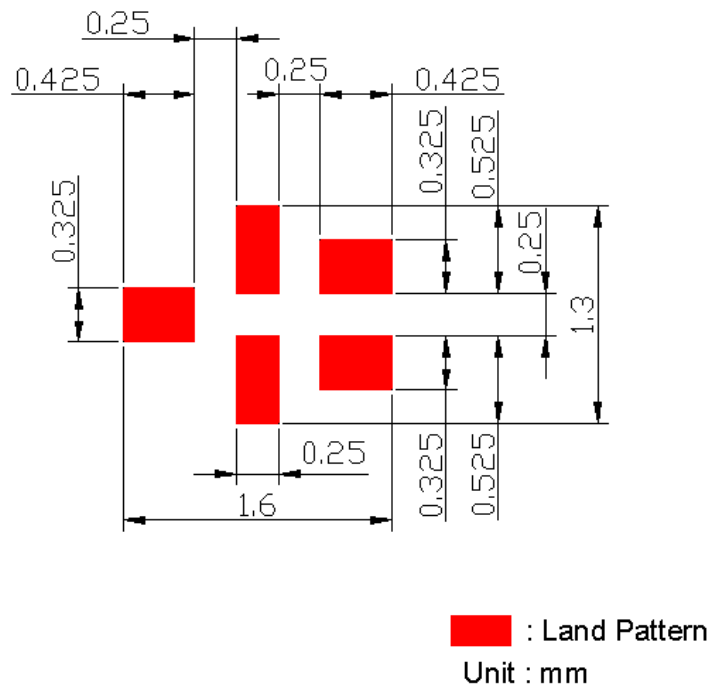
□: Year /Month Code(Fallow the table)

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

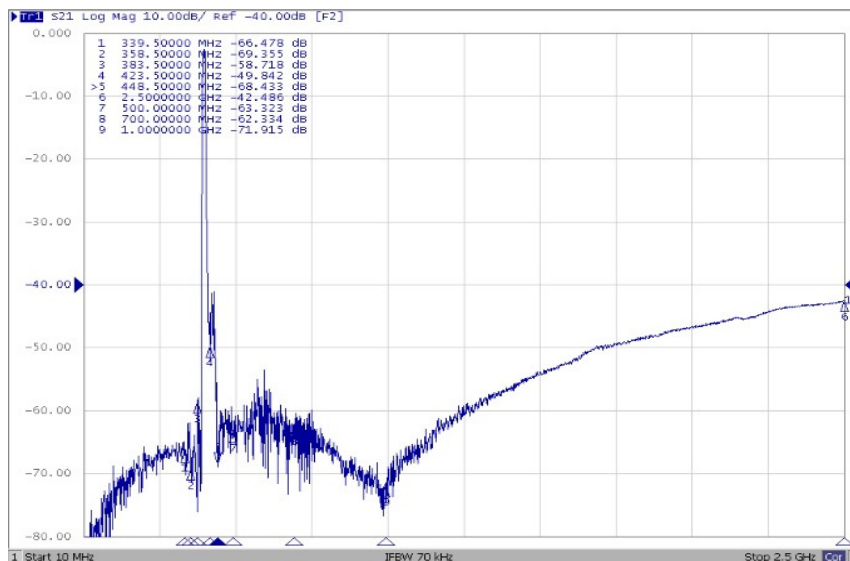
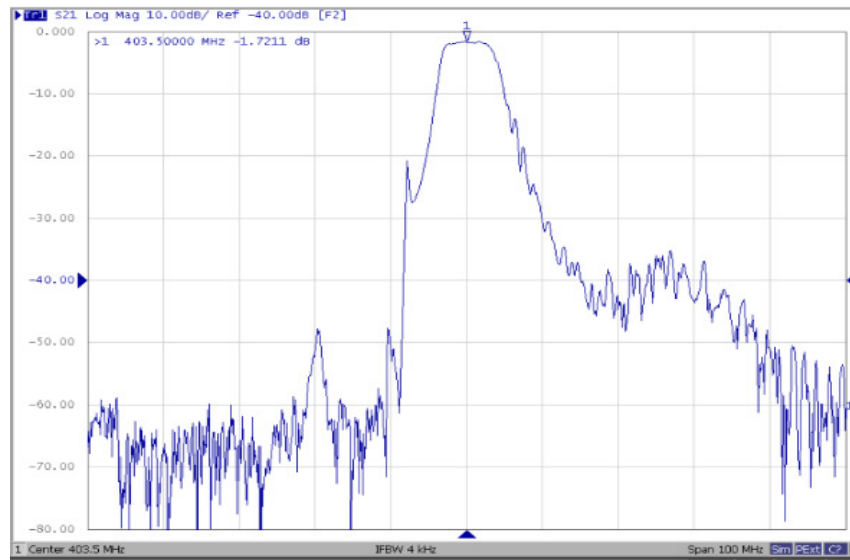
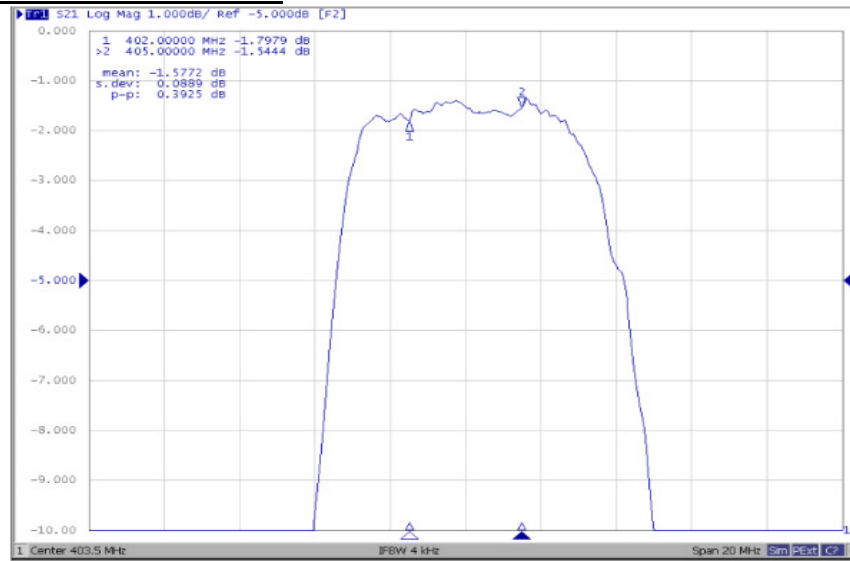
D. MEASUREMENT CIRCUIT:



E. PCB Footprint:

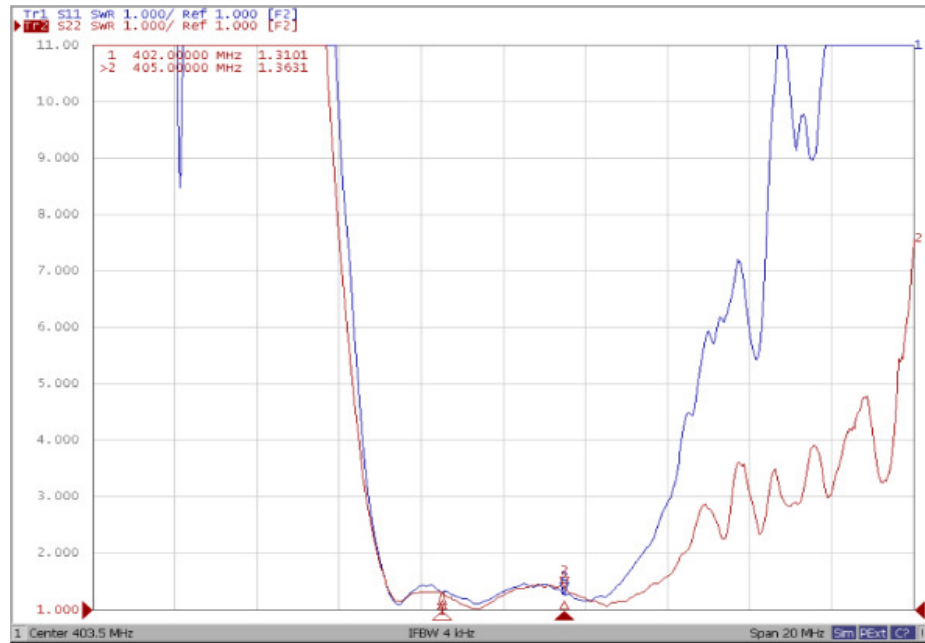


F. FREQUENCY CHARACTERISTICS:



Reflection function:

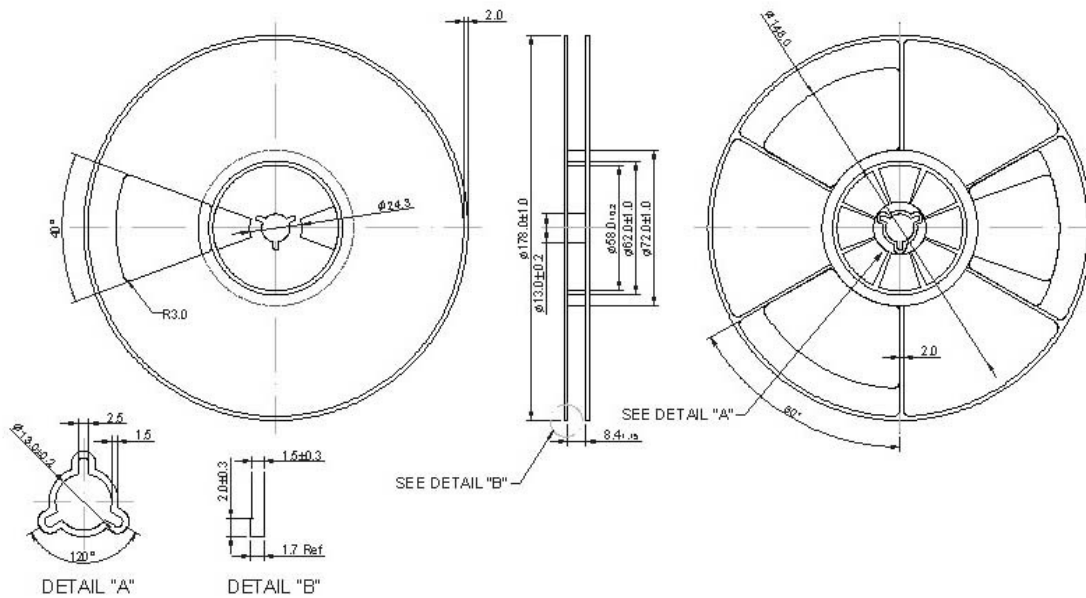
VSWR



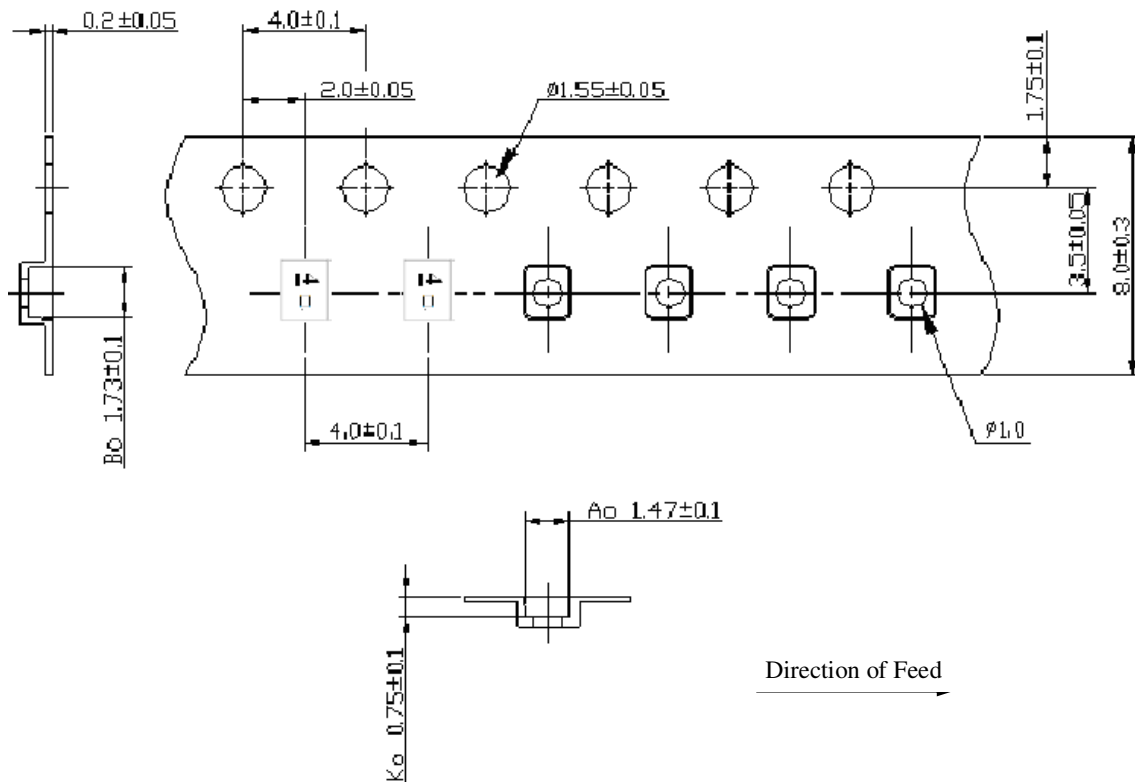
G. PACKING:

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 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

