



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 782 MHz BW 10 MHz SMD 1.4 x 1.1mm

TST Part No.: TA2641A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Sam Lin *Sam Lin*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2020/07/02

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 782 MHz BW 10 MHz SMD 1.4 x 1.1mm

MODEL NO.:TA2641A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 0V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitive Level: Level 3 (MSL3)
6. ESD 50V(MM), 100V(HBM).

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

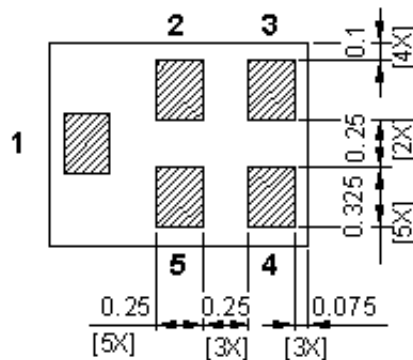
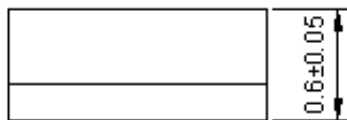
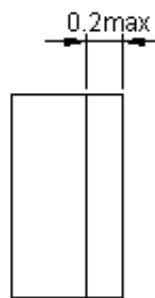
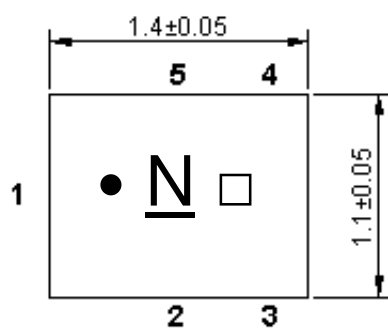
Terminating source impedance: $Z_s = 50 \Omega$

Terminating load impedance: $Z_L = 50 \Omega$

Item	Unit	Min	Typ.	Max
Center frequency	MHz	-	782	-
Insertion Loss (777.0 – 787.0 MHz)	dB	-	2.0	3
Amplitude Ripple (777.0 – 787.0 MHz)	dB	-	0.2	1.5
VSWR (777.0 – 787.0 MHz)	dB	-	2.0	2.3
Attenuation (Reference level from 0 dB)				
10 – 716 MHz	dB	40	49	-
716 – 728 MHz	dB	40	46	-
728 – 746 MHz	dB	40	43	-
758 – 768 MHz	dB	-	20	-
768 – 775 MHz	dB	-	2.2	-
793 – 805 MHz	dB	-	7	-
746 – 756 MHz	dB	30	38	-
808 – 818 MHz	dB	25	37	-
869 – 894 MHz	dB	45	50	-
1554 – 1585 MHz	dB	35	40	-
1597 – 1607 MHz	dB	35	40	-
1805 – 1880 MHz	dB	30	36	-
1930 – 1990 MHz	dB	30	36	-
2110 – 2170 MHz	dB	20	35	-
2331 – 2361 MHz	dB	20	35	-

2400 – 2484 MHz	dB	20	33	-
2484 – 3000 MHz	dB	20	31	-
3000 – 3108 MHz	dB	20	30	-
3108 – 3148 MHz	dB	20	30	-
3148 – 4000 MHz	dB	20	25	-
4000 – 5000 MHz	dB	15	25	-
5000 – 6000 MHz	dB	5	23	-
Temperature coefficient of Frequency	ppm/K	-36		

C.OUTLINE DRAWING:



All tolerances are +/-0.05 mm unless otherwise specified

Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm

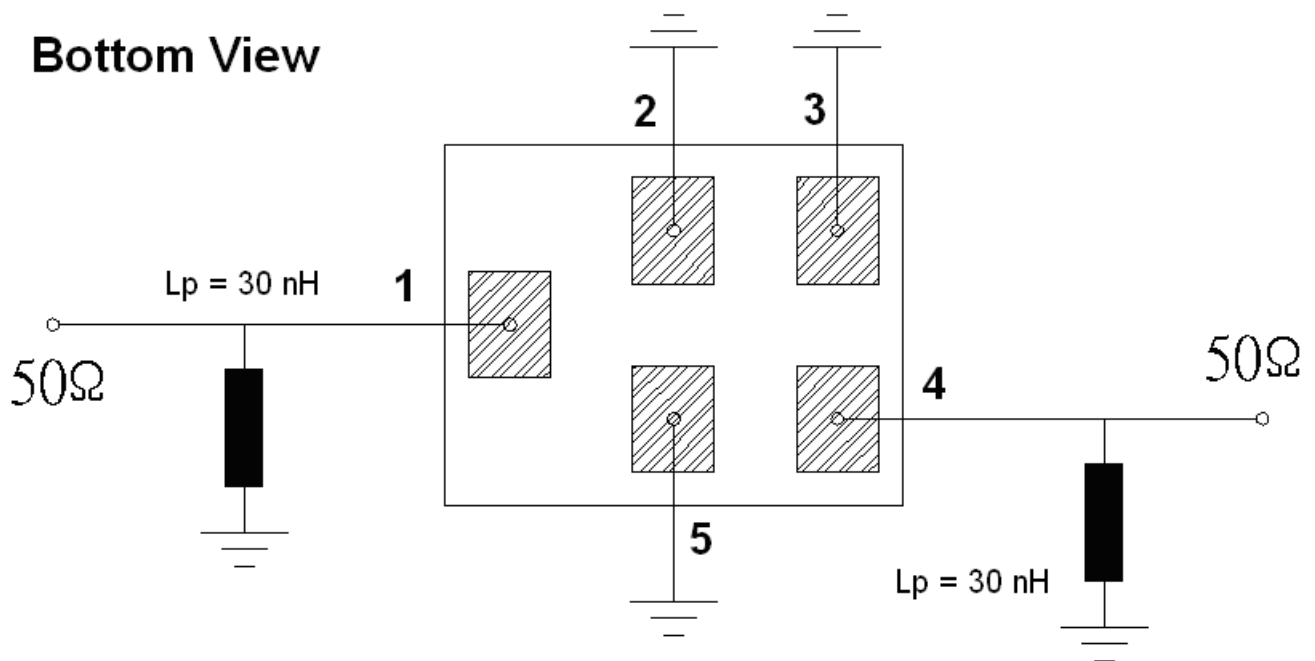
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	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:

Bottom View

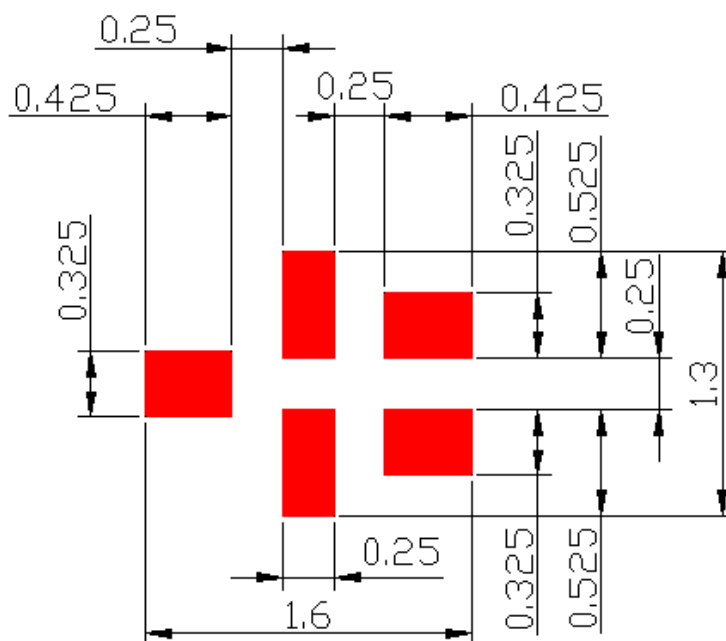


(1): Unbalance Port

(4): Unbalance Port

Others: Ground

E. PCB Footprint:

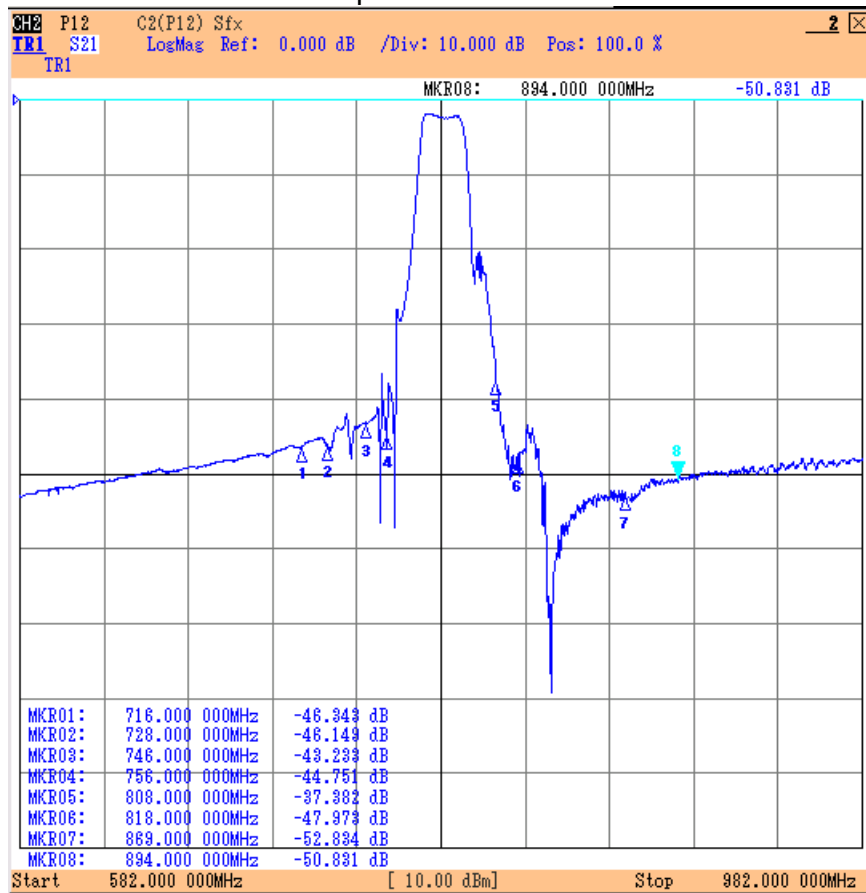


: Land Pattern

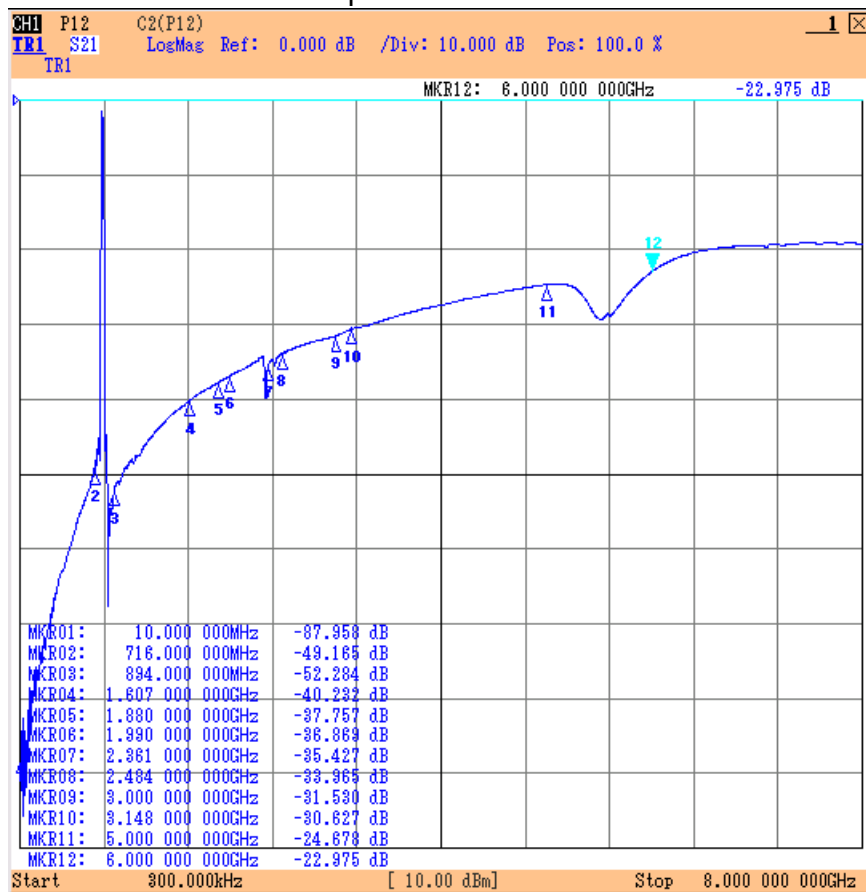
Unit : mm

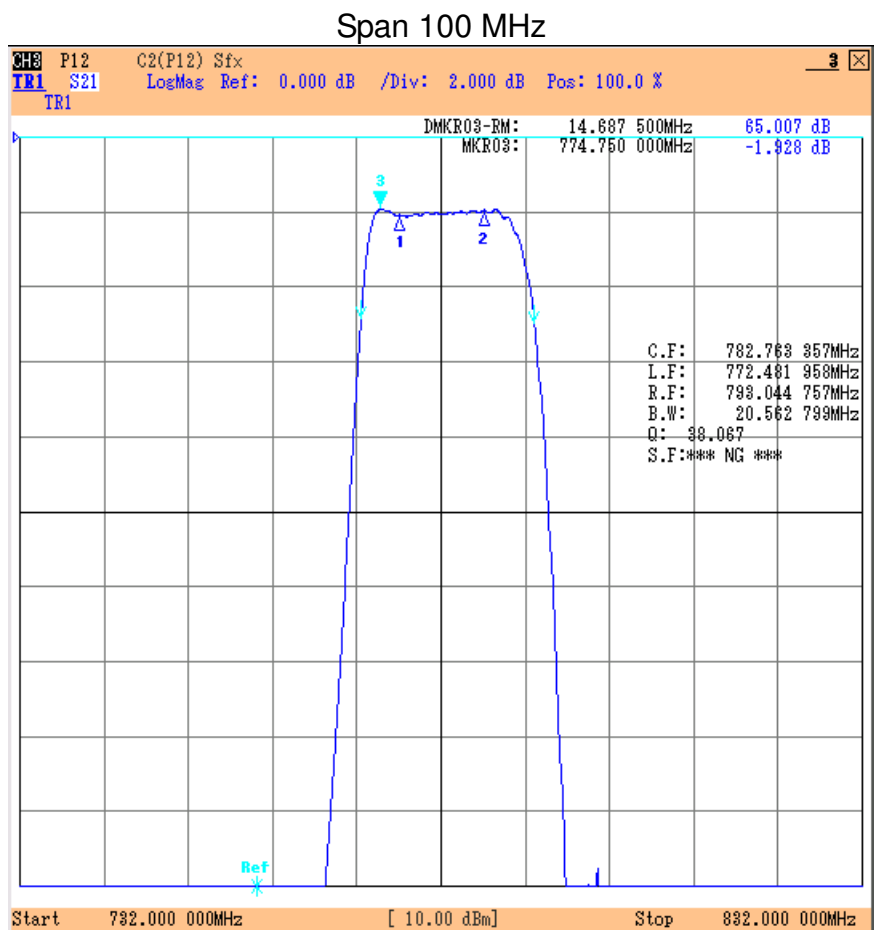
F. Frequency Characteristics:

Span 400 MHz



Span 8000 MHz





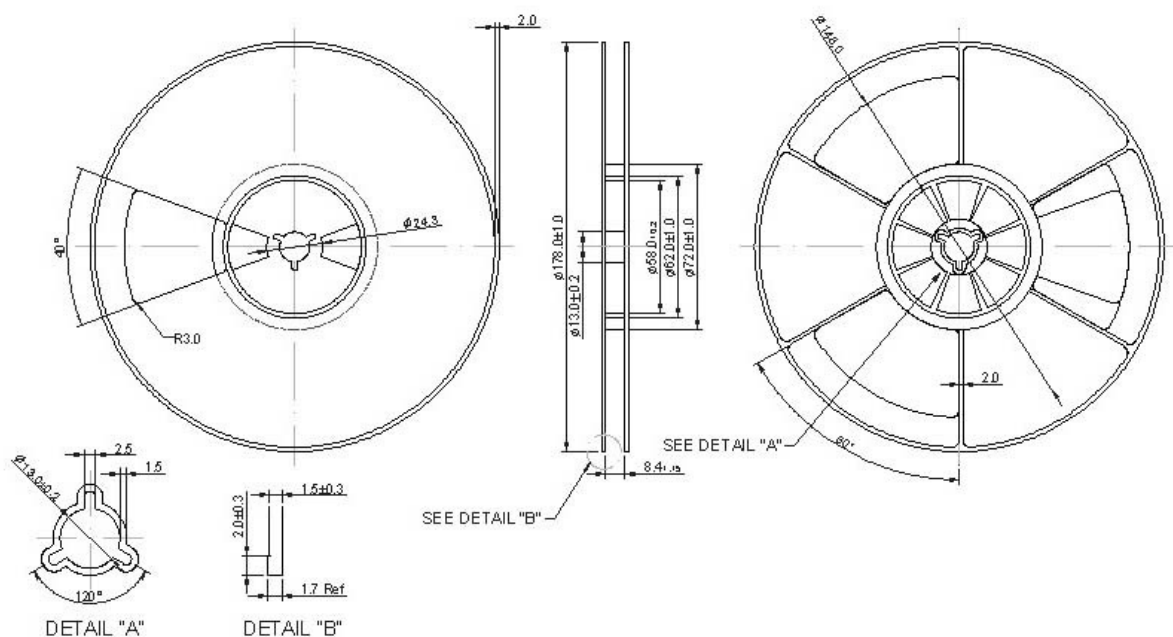
Reflection Functions:



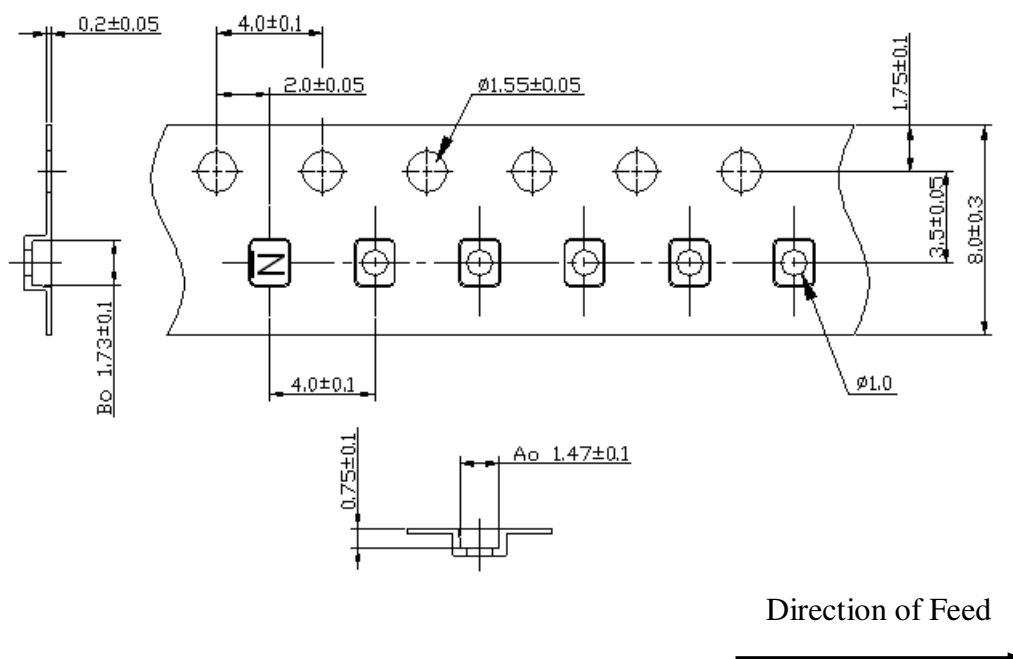
G. PACKING:

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.

