

TAI-SAW TECHNOLOGY CO., LTD. No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

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	1246.5 MHz SMD	1.4x1.1 mm (BW=63 MHz)
TST Parts No.: TA2538A		
Customer Parts No.:		
Customer signature rec	quired	
Company:		
Division:		
Approved by :		
Date:		
Checked by:	Hayley Chou	Idayley Chan
Checked by:	Andy Yu	Andy In
Date:	2019/05/21	

- 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 1246.5 MHz

MODEL NO.: TA2538A REV. NO.:1.0

A. MAXIMUM RATING:

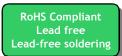
1. Input Power Level: 13 dBm

2. DC voltage: 3 V

3. Operating Temperature: -20 °C to +85 °C

4. Storage Temperature: -40 °C to +85 °C

5. Moisture Sensitivity Level: Level 3 (MSL3)

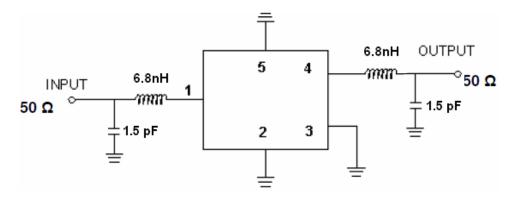


Electrostatic Sensitive Device (ESD)

B. <u>ELECTRICAL CHARACTERISTICS</u>:

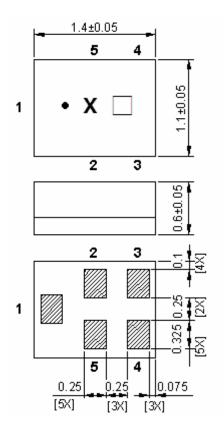
Parameters Description	Unit	Min.	Тур.	Max.				
Center Frequency	Fc	MHz	-	1246.5	-			
Insertion Loss (1215~1278 MHz)	IL	dB	-	2.3	2.8			
Amplitude Ripple (1215~1278 MHz)		dB	-	0.7	1.4			
Attenuation (Reference level from 0 dB)								
996.5 ~ 1170 MHz		dB	24	34	-			
1310 ~ 1496.5 MHz		dB	22	27	-			
Temperature coefficient of frequency	ppm/k	-	-36	-				

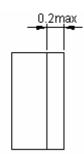
C. MEASUREMENT CIRCUIT:



(1): Unbalance Port(4): Unbalance PortOthers: Ground

D. **OUTLINE DRAWING**:





All tolerances are +/-0.05 mm unless otherwise specified

Coplanarity: 0.1 mm max.

1 to 5 : Pin No. Unit : mm

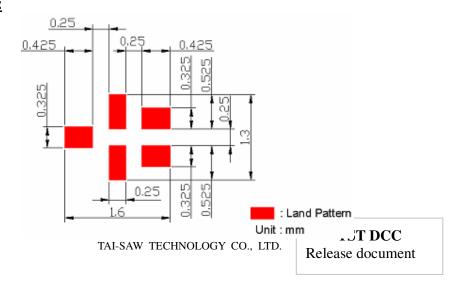
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

Index: ● Marking name: x (small letter)

: Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	Α	В	С	D	E	F	G	Н	J	K	L	M
2014	N	Р	Q	R	S	Т	U	V	W	X	Υ	Z
2015	а	b	С	d	е	f	g	h	j	k	I	m
2016	n	р	q	r	s	t	u	V	w	X	у	Z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	G	<u>H</u>	<u>J</u>	<u>K</u>	L	M
2018	N	<u>P</u>	Q	<u>R</u>	<u>s</u>	<u>T</u>	U	<u>V</u>	W	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	C	<u>d</u>	<u>e</u>	<u>f</u>	q	<u>h</u>	İ	<u>k</u>	<u> </u>	<u>m</u>
2020	<u>n</u>	<u>p</u>	q	<u>r</u>	<u>s</u>	<u>t</u>	믜	<u>v</u>	w	<u>X</u>	y	<u>z</u>

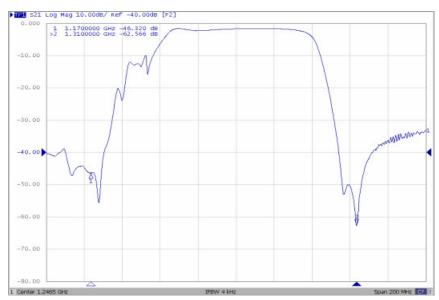
E. PCB Footprint:

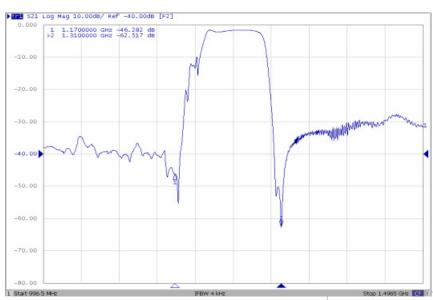


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F. FREQUENCY CHARATERISTIC: | S21 Log Mag 2.000ds/ Ref -10.00d8 [F2]







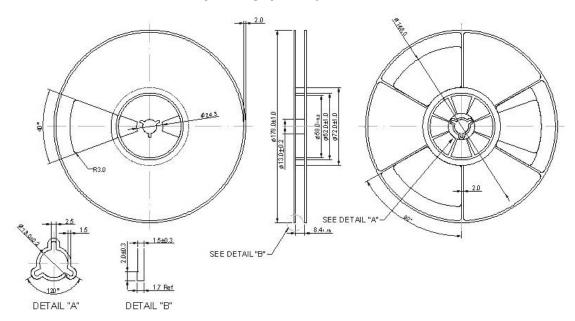
TAI-SAW TECHNOLOGY CO., LTD.

TST DCC
Release document

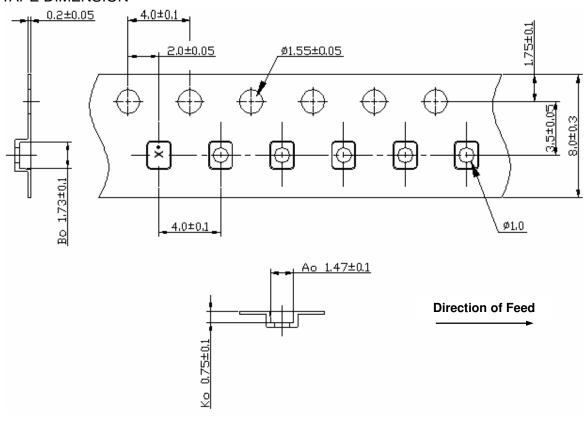
G PACKING: (Ref: WI-75M03)

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.

