

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 403.5 MHz SMD 2.5X2.0 mm (BW=1.6 MHz)

TST Parts No.: TA1376A

Customer Parts No.:

	Company:		
	Division:		
	Approved by :		
	Date:		
Checked by:		Hayley Chou	Hayley Chan
Approval by:		Andy Yu	Andy In
Date:		2018/12/07	Ť

- 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.: TA1376A

A. MAXIMUM RATING:

- 1. Input Power Level: 10 dBm
- 2. DC Voltage : 3 V
- 3. Operating Temperature: -40 ℃ to +85 ℃
- 4. Storage Temperature: -40 ℃ to +85 ℃
- 5. Moisture Sensitive Level: Level 1 (MSL 1)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Zs = 50 \Omega$

Terminating load impedance: $Z_L = 200 \Omega$

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Item		Unit	Min.	Тур.	Max.
Center Frequency Fc		MHz	402.8	403.2	403.7
Insertion Loss (402.7~404.3 MHz)	IL	dB	-	2.4	2.8
VSWR (402.7~404.3 MHz)		-	-	1.5	2.0
Amplitude Ripple (402.7~404.3 MHz)		dB	-	0.36	1.0
Attenuation (Reference level from 0 dB)					
10 ~ 350 MHz		dB	45	51	-
350 ~ 392 MHz		dB	42	45	-
416 ~ 430 MHz		dB	25	28	-
430 ~ 650 MHz		dB	50	58	-
650 ~ 1000 MHz		dB	42	52	-
Package size		mm	SMD 2.5x2.0		
Temperature Coefficient of Frequency		ppm/℃	-36		



Rev.4.0

Electrostatic Sensitive Device (ESD)

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C.FREQUENCY CHARACTERISTICS:



S21 response: (span 50MHz)



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S21 response: (span 1GHz)



VSWR



Release document

D. MEASUREMENT CIRCUIT:



L1=150nH



* All tolerance are ±0.10um

Pin 4: RF input

Pin 1, 6: RF balanced output

Pin 2, 3, 5: Ground

- △ : Year Code (2009->9, 2010->0,..., 2018->8)
- □ : Date Code (W01->A,W02->B,...W27->a,...,W52->z)

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F. PACKING: (Ref: WI-75M03)

1. REEL DIMENSION

There shall be a trailer of 1000 mm minimum of empty carrier tape sealed with cover tape. There shall be a leader of 160mm minimum of empty carrier tape sealed with cover tape.



2. TAPE DIMENSION



Section A-A

Direction of Feed

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G. <u>RECOMMENDED REFLOW PROFILE</u>:

- 1. Preheating shall be fixed at $150 \sim 180^{\circ}C$ 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 $260^{\circ}C + 0/-5^{\circ}C$ peak (20~40sec).
- 4. Time: 2 times.



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