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 403.5MHz BW1.6MHz SMD2.5X2.0mm

TST Parts No.: TA1376A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Yu _____

Approval by:_____ Bob Chau _____

Date:_____ 2016/12/09 _____

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 BW1.6MHz

MODEL NO.: TA1376A Rev 3.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +85℃

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

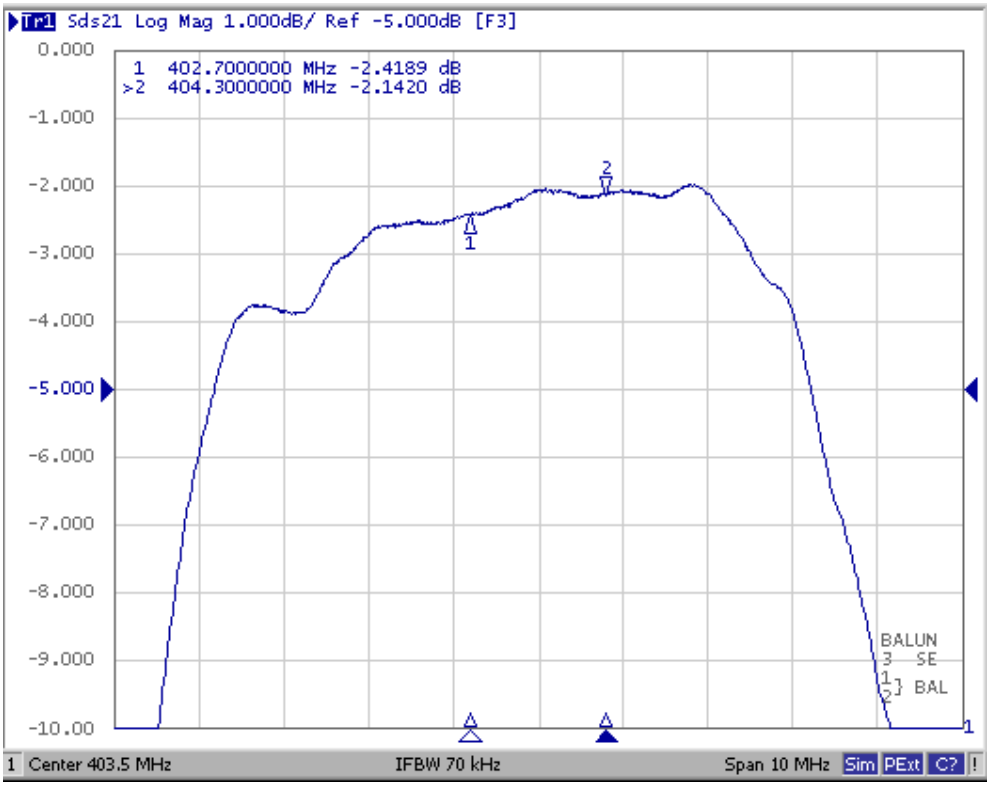
Terminating source impedance : Zs = 50 Ω

Terminating load impedance : Z_L = 200 Ω

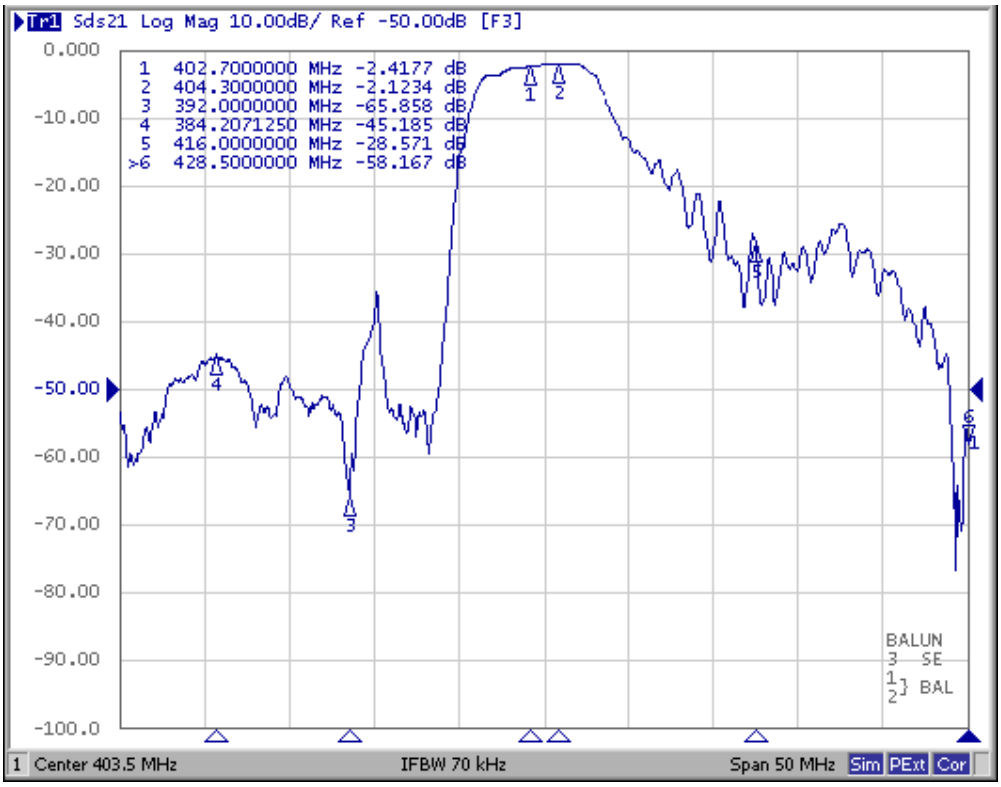
Item	Unit	Min.	Type.	Max.	Note
Center Frequency **Fc**	MHz	**402.8**	**403.2**	**403.7**	-
Insertion Loss (402.7~404.3 MHz) **IL**	dB	-	2.4	2.8	-
VSWR S11/S22 (402.7~404.3 MHz)	-	-	1.5	2.0	-
Amplitude ripple (402.7~404.3 MHz)	dB	-	0.36	1.0	-
Attenuation (Reference level from 0 dB)					
10.0 ~ 350.00 MHz	dB	45	51	-	-
350.00 ~ 392.00 MHz	dB	42	45	-	-
416.00 ~ 430.00 MHz	dB	25	28	-	-
430.00 ~ 650.00 MHz	dB	50	58	-	-
650.00 ~ 1000.00 MHz	dB	42	52	-	
Package size	mm	SMD 2.5x2.0			
Temperature Coefficient of Frequency	ppm/℃	-36			

C.FREQUENCY CHARACTERISTICS:

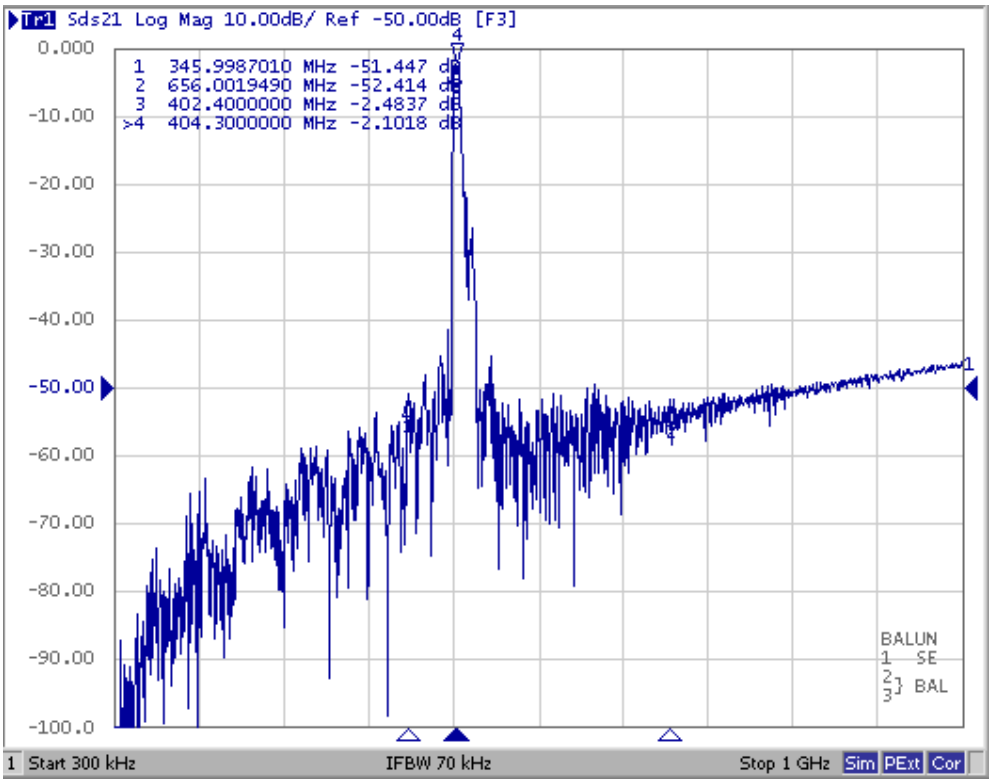
S21 Pass-band response: (span 10MHz)



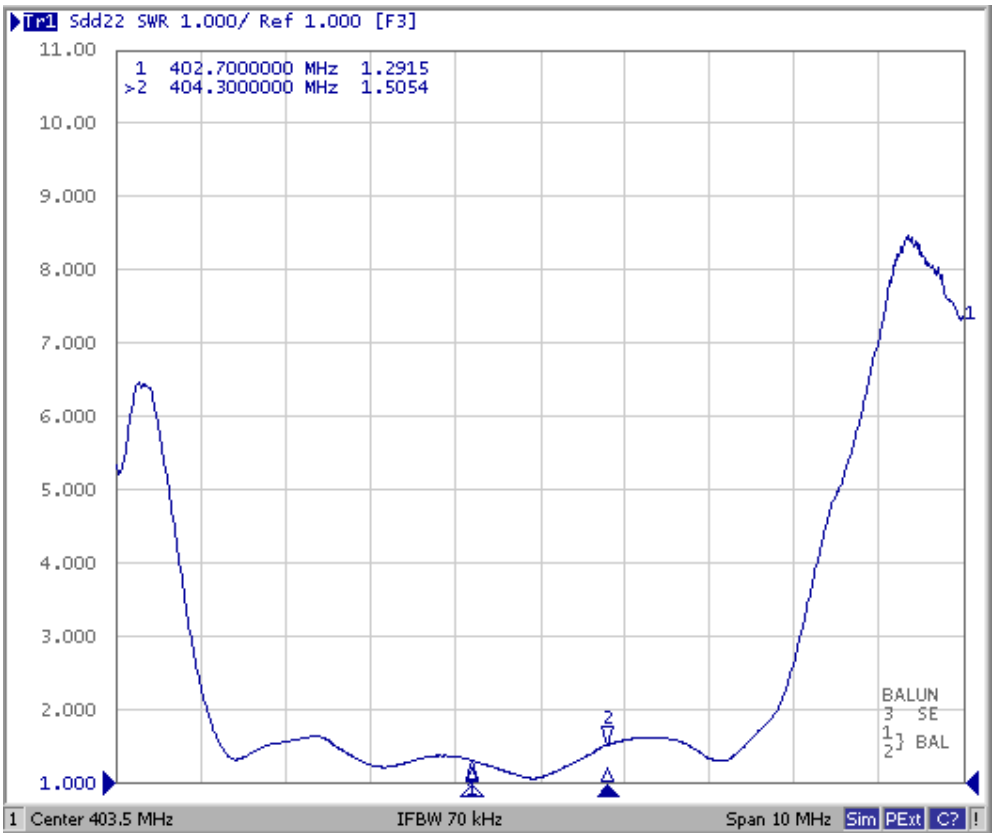
S21 response: (span 50MHz)



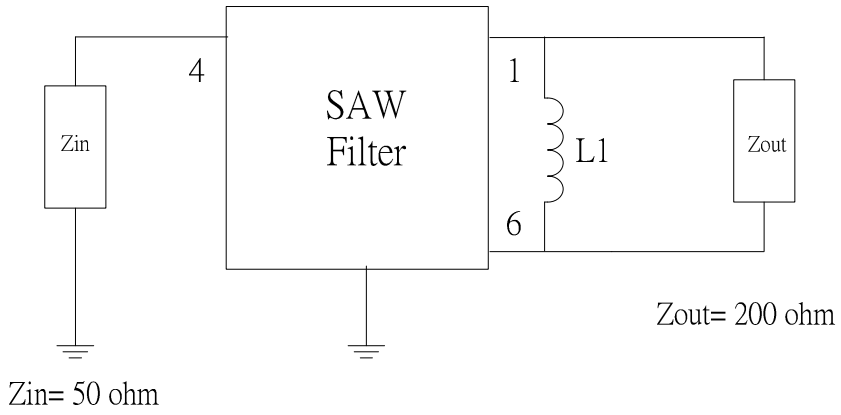
S21 response: (span 1GHz)



S11&S22 VSWR

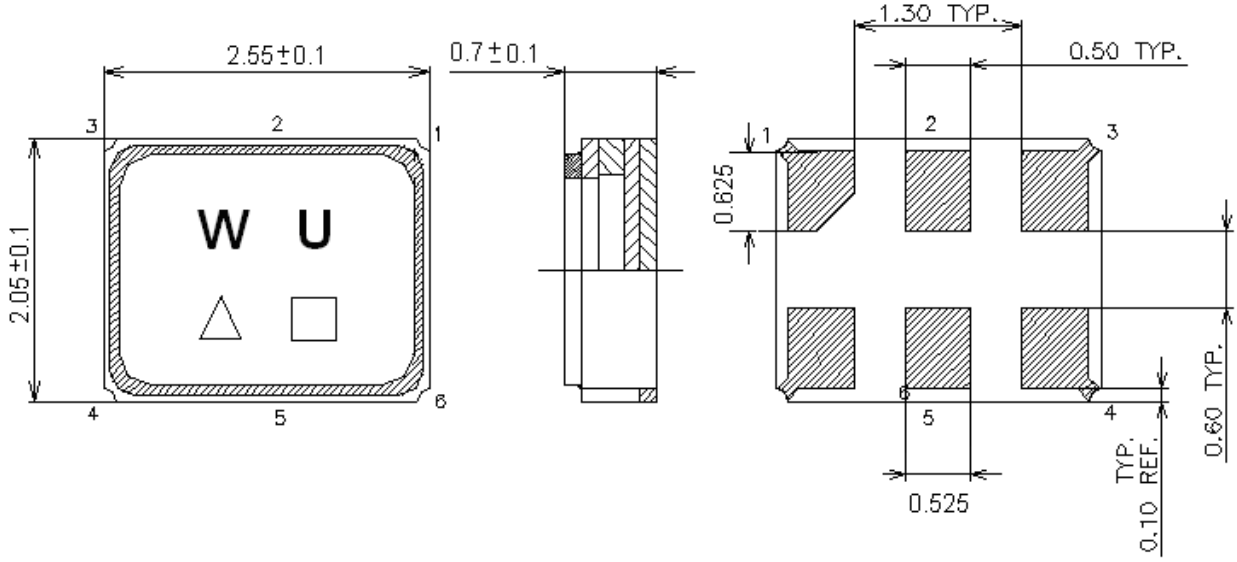


D. MEASUREMENT CIRCUIT:



L1=150nH

E.OUTLINE DRAWING:



* All tolerance are ±0.10um

Pin 4: RF input

Pin 1, 6: RF balanced output

Pin 5, 2, 3: Ground

△ : Year Code (2009->9, 2010->0,…, 2018->8)

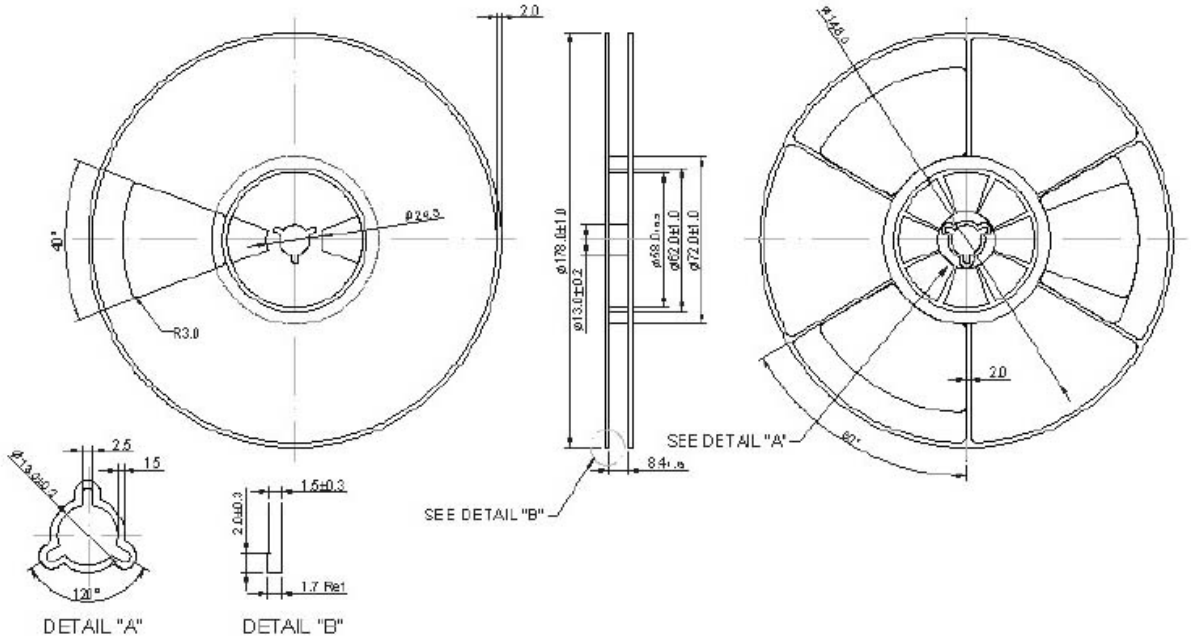
□ : Date Code (W01->A,W02->B,…W27->a,…,W52->z)

F. PACKING:

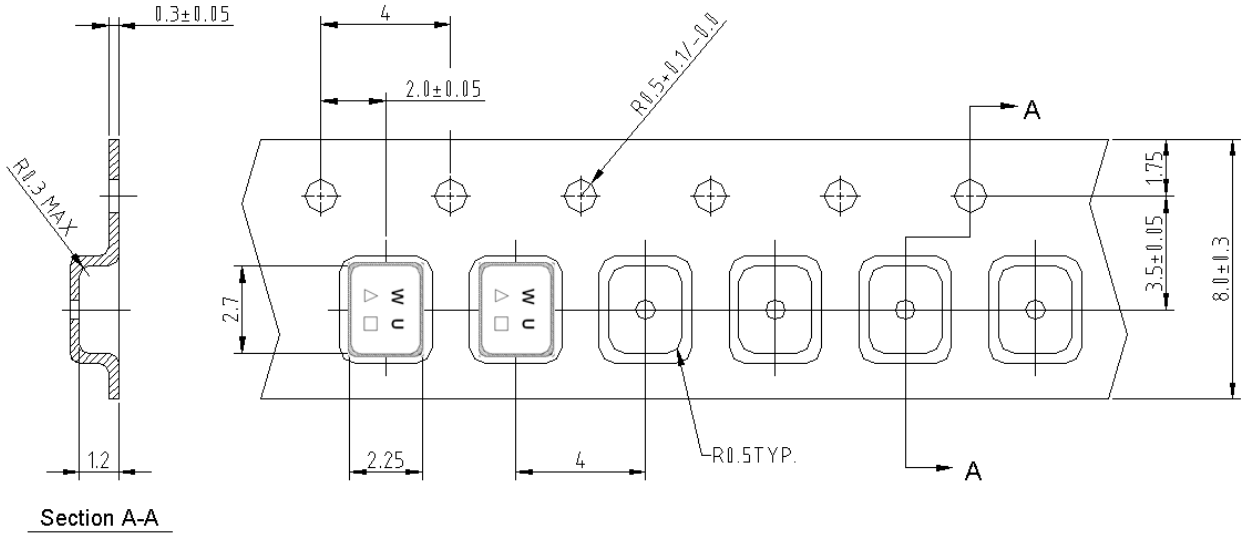
1. REEL DIMENSION

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



Direction of Feed

G. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.