



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Name: SAW Filter 869.5 MHz SMD 2.0 x 1.6 mm

TST Parts No.: TA2031A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Sam Lin *Sam Lin*

Approval by: _____ Bob Chau *Bob Chau*

Date: _____ 09/10/2016

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 869.5MHz

MODEL NO.:TA2031A

REV. NO.:1

A. MAXIMUM RATING:

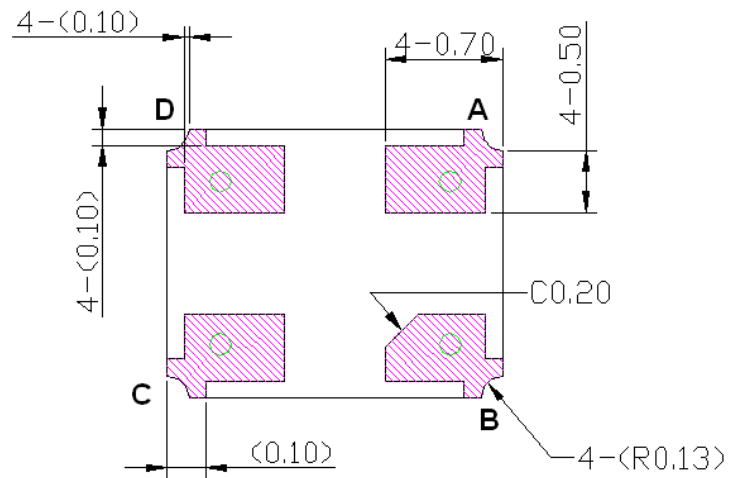
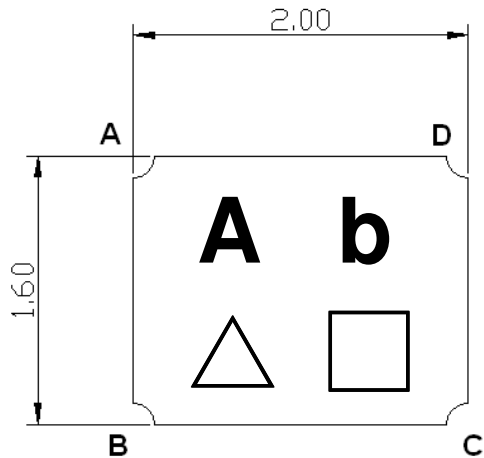
1. Input Power Level: 15 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +105°C
4. Storage Temperature: -40°C to +105°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min	Typical	Max
Center Frequency Fc	MHz	-	869.5	-
Insertion Loss (863 ~876 MHz) IL	dB	-	2.0	3.5
Amplitude Ripple (863 ~876 MHz)	dB	-	0.5	1.5
VSWR (863 ~876 MHz)	dB	-	1.6	2.0
Attenuation (Reference level from 0 dB)				
10 ~ 820 MHz	dB	40	50	-
820 ~ 835 MHz	dB	35	48	-
912 ~ 927 MHz	dB	25	38	-
927 ~ 972 MHz	dB	35	48	-
972 ~ 1300 MHz	dB	40	48	-

C.OUTLINE DRAWING:



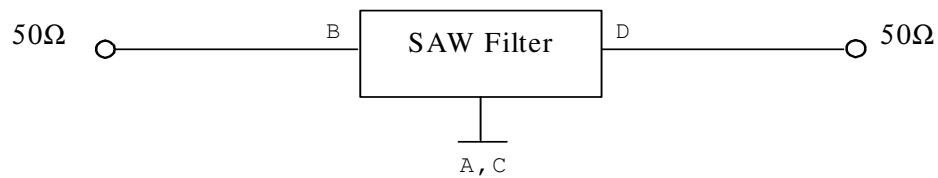
#B:	Input
#D:	Output
#A,C:	Ground
Unit:	mm

△: Year(2011:1)

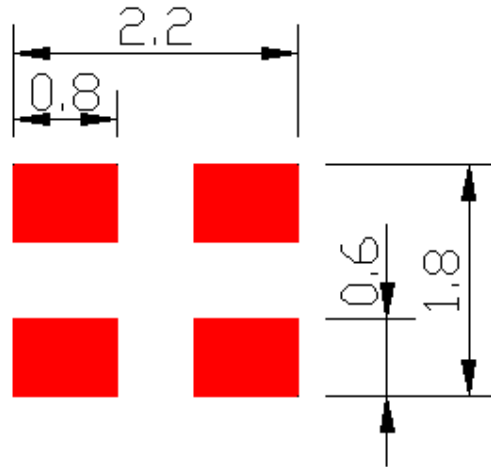
□: Week(A~Z:Week01~26, a~z:Week27~52)

D. MEASUREMENT CIRCUIT:

Network analyzer

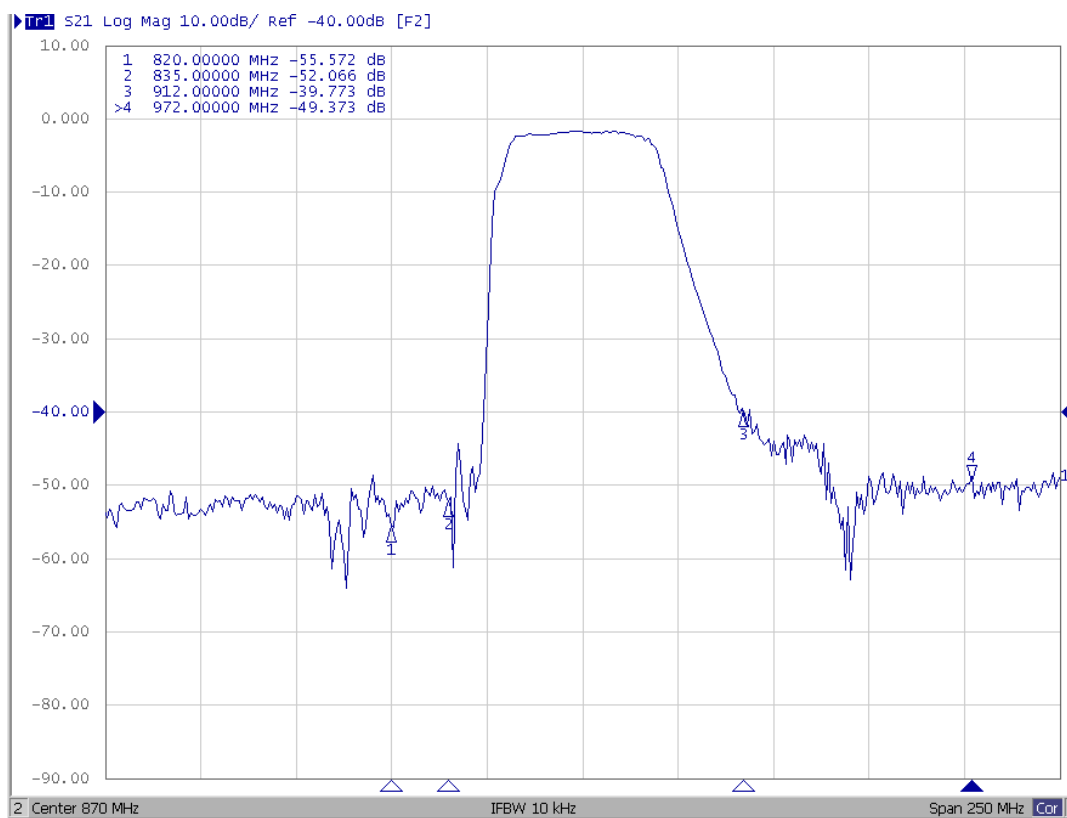


E. PCB Footprint:

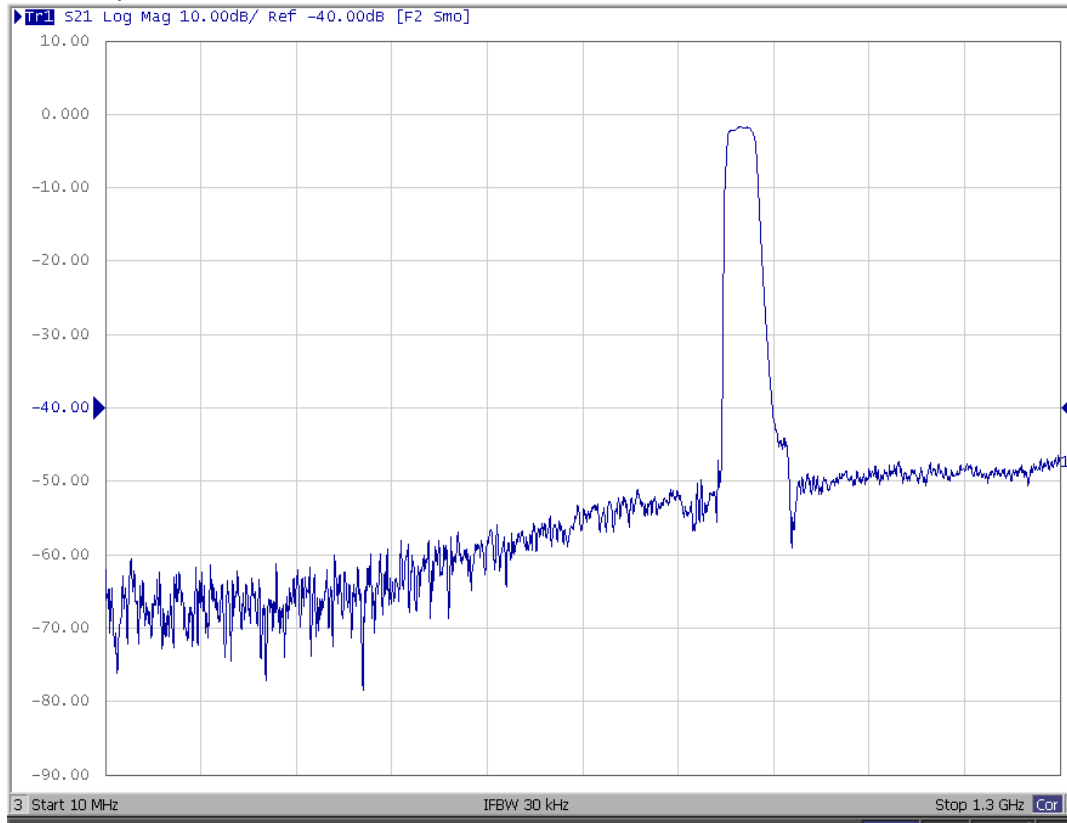


F. Frequency Characteristics : (Measure Demo board)

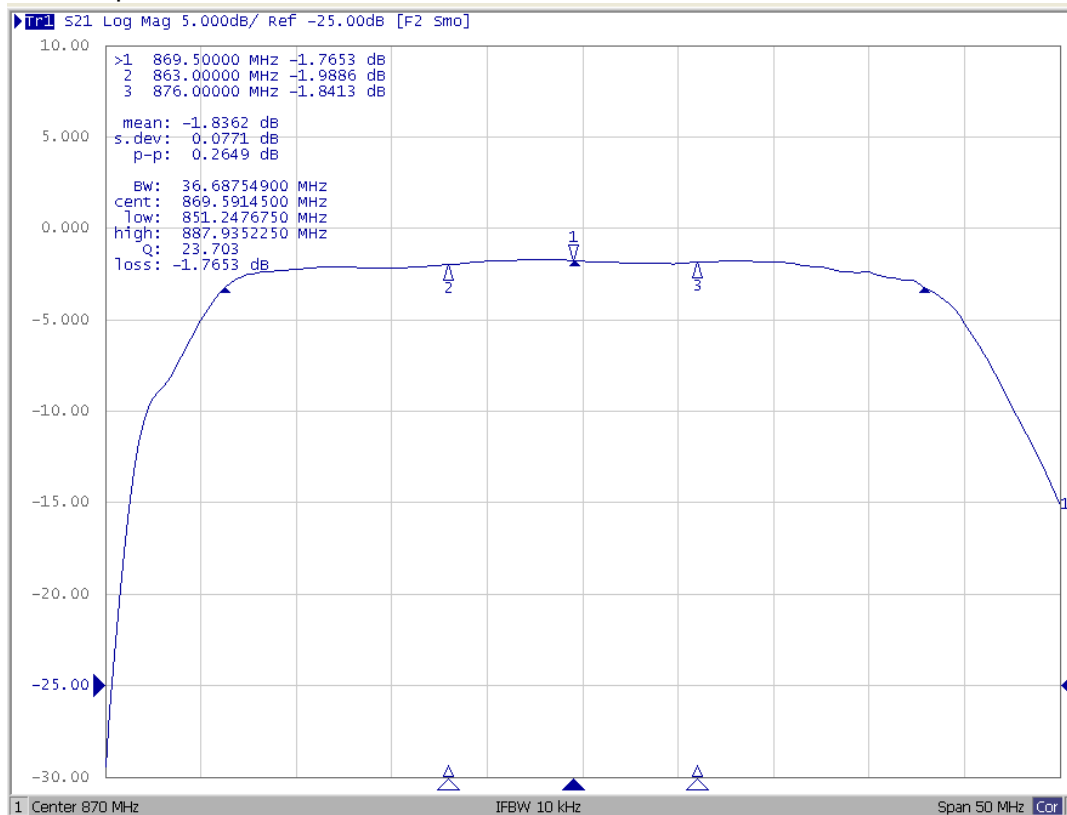
Frequency Response



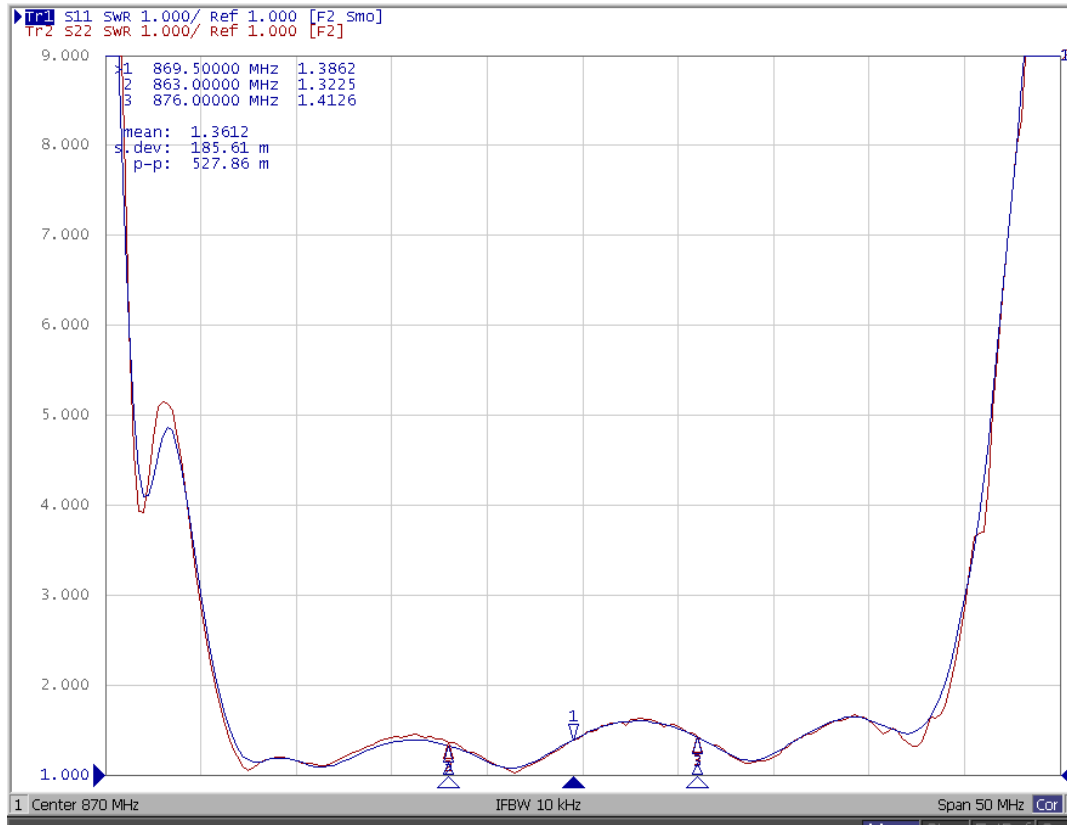
Wideband Response



Passband Response

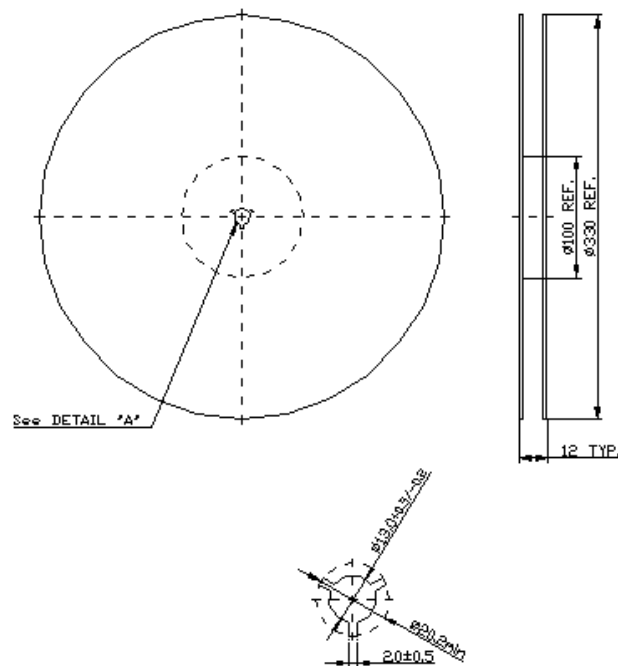


VSWR

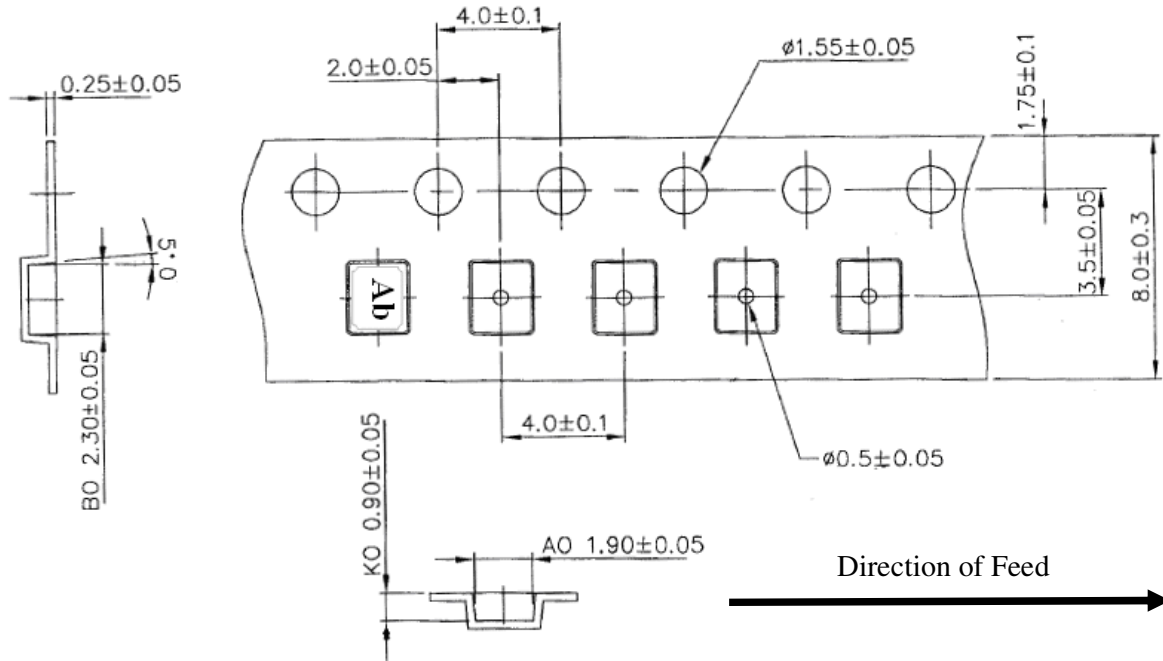


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

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

