



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 495MHz 30MHz BW SMD 5.0×5.0mm

TST Parts No.:TB0620A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Yu *Andy*

Approval by:_____ Bob Chau *Bob*

Date:_____ 2013/03/19

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 495 MHz 30MHz BW SMD 5.0x5.0mm

MODEL NO.: TB0620A

Rev. NO. 1.0

A. MAXIMUM RATING:

1. Operating Temperature: -25°C to +70°C
2. Storage Temperature: -40°C to +85°C
3. Maximum Input Power : 10dBm

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °

Item		Min.	Typical	Max.
Center frequency Fc	MHz	-	495	-
Insertion loss at Fc	dB	-	14.5	18
Bandwidth at -1.0dB	MHz	30.0	31.5	-
Bandwidth at -6.0dB	MHz	-	37.4	38.0
Bandwidth at -25.0dB	MhZ		44.0	45
Amplitude Ripple (Fc ± 15 MHz)	dB	-	0.7	1
Group Delay Ripple (Fc ± 15 MHz)	nS	-	23	100
Absolute Group delay at Fc	nS	-	307	-
Temp Coefficient	ppm/°C	-	-0.18	-

C. FREQUENCY CHARACTERISTICS :

1.S21 Response

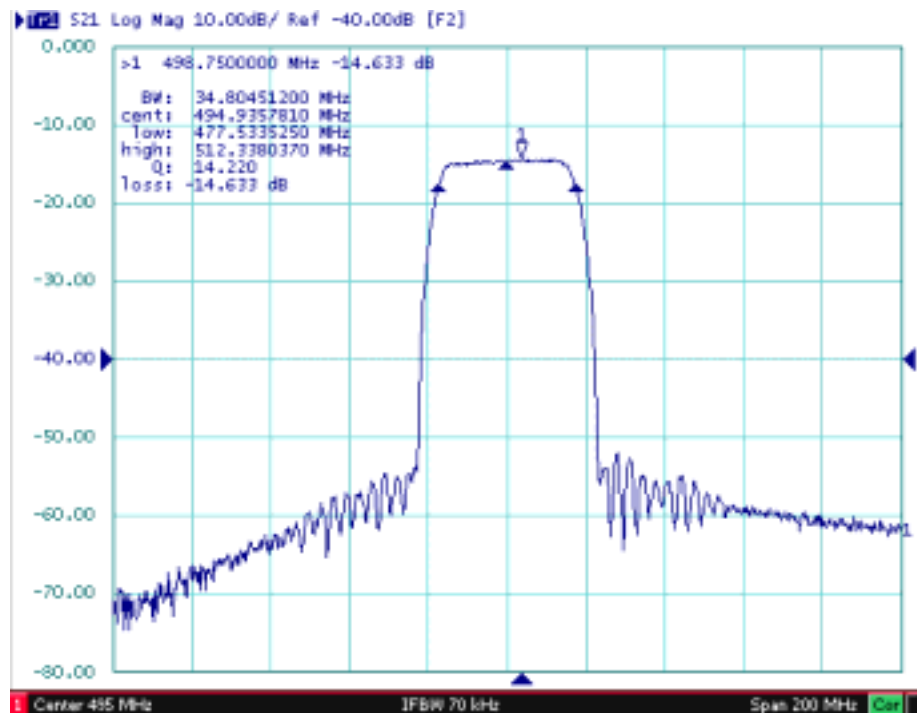


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

2. Passband Ripple

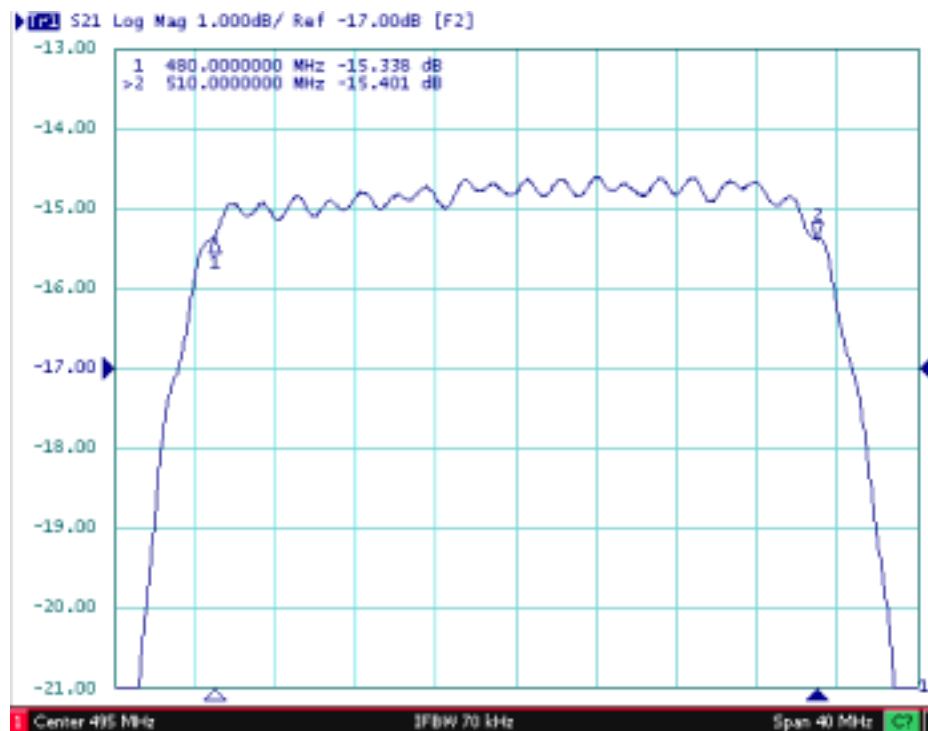


Fig2. Horizontal: 4MHz/Div Vertical: 1dB/Div

3. Group Delay Ripple

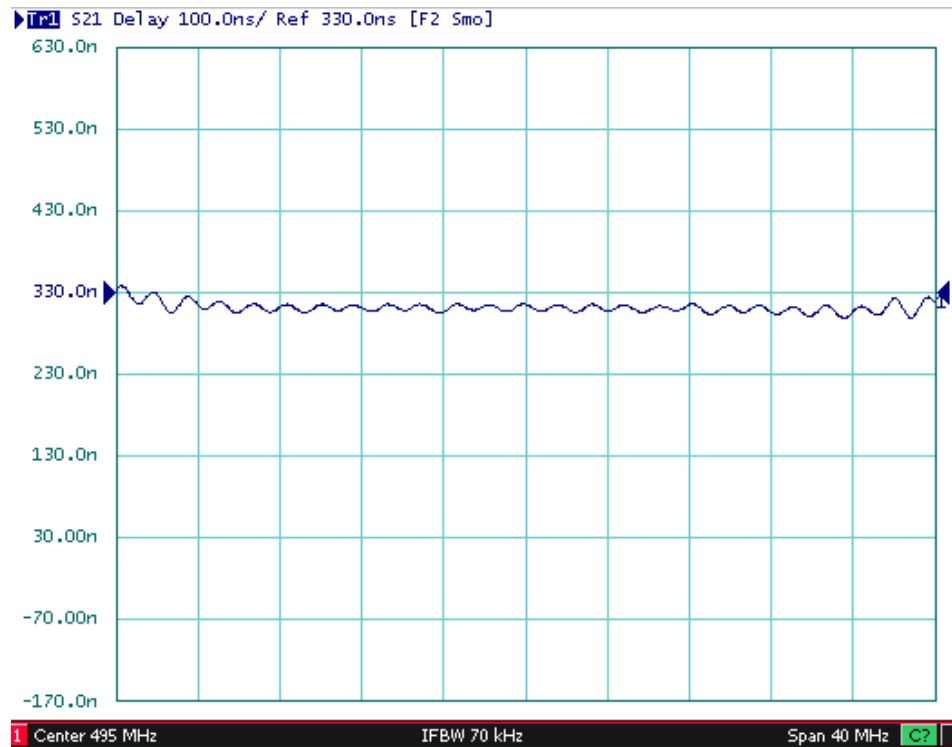
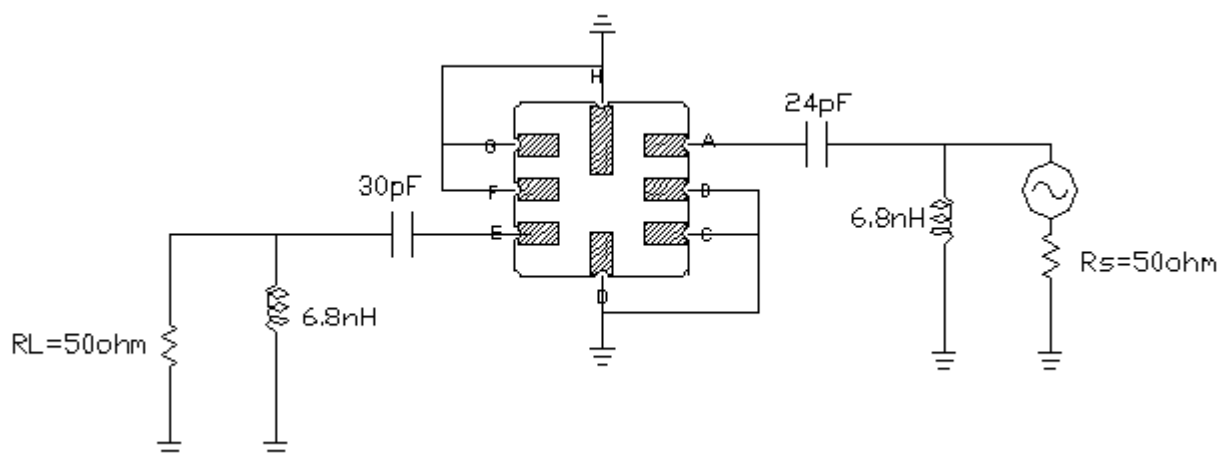


Fig3. Horizontal: 4MHz/Div Vertical: 100nS/Div

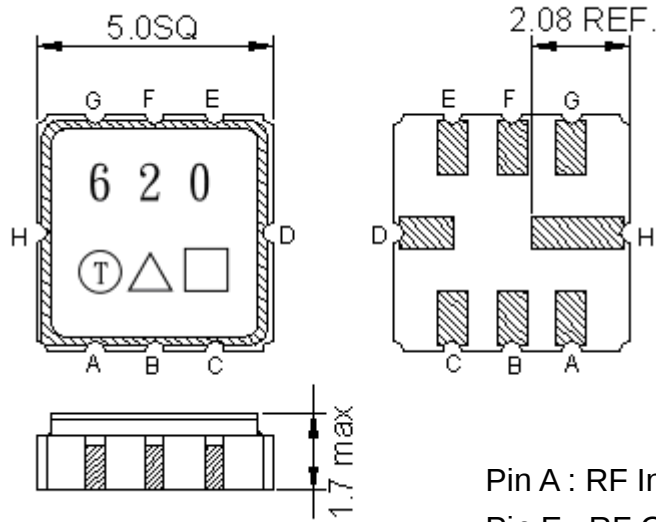
D. MEASUREMENT CIRCUIT

1. Single ended input 50 ohm to Single ended Output 50 ohm



Note: The matching structure will change according to different test fixture.

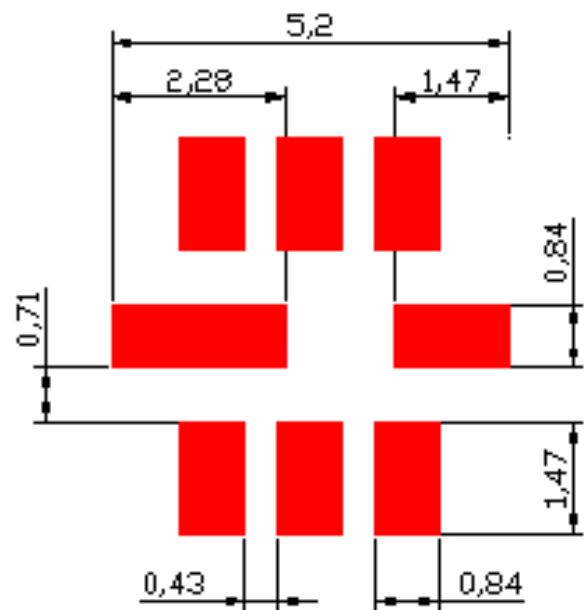
E.OUTLINE DRAWING:



Pin A : RF Input
 Pin E : RF Output
 Pin B,C,D,F,G,H : Ground
 Unit: mm
 □ : Week Code (Follow the table from planner each year)
 : Product / Year Code

Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

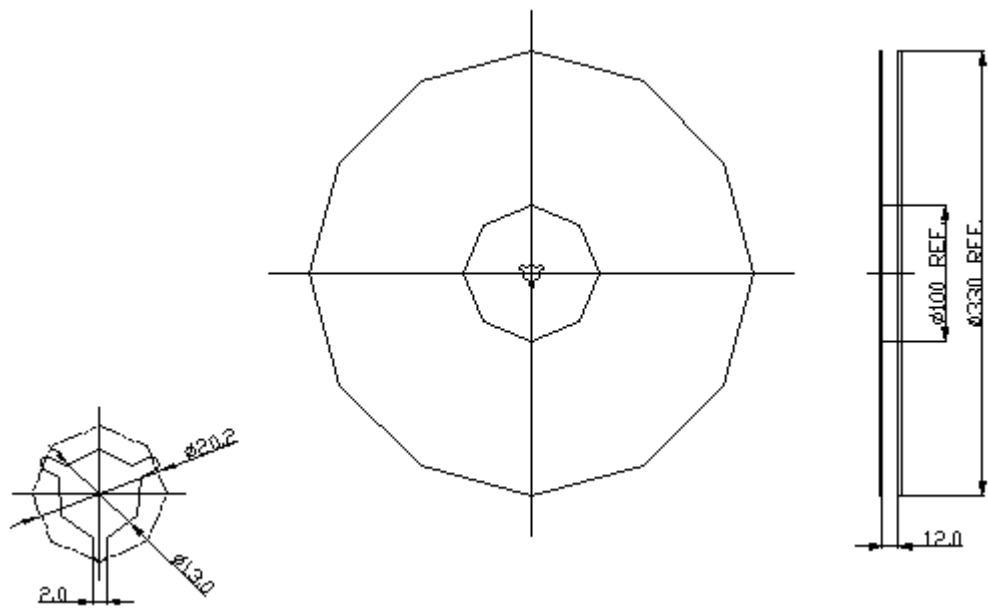
F. PCB Footprint



Unit: mm

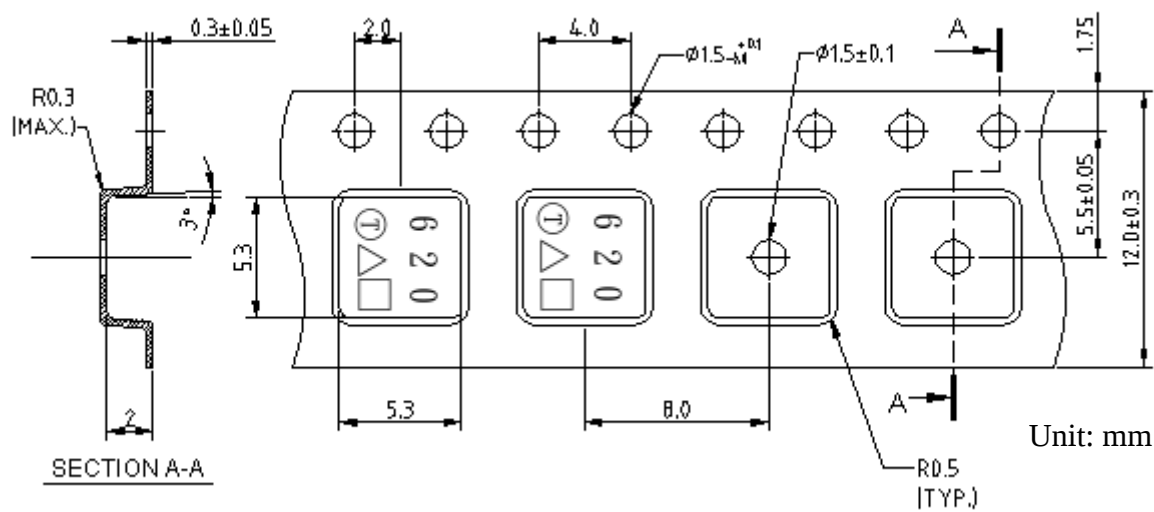
G. PACKING:

1. REEL DIMENSION
(Please refer to FR-75D10 for packing quantity)



Unit: mm

2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

