



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 495MHz SMD 5.0x5.0mm

TST Parts No.:TB0707A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Yu *Andy Yu*

Approval by:_____ Francis Chen *Francis Chen*

Date:_____ 2008/11/14



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SAW Filter 495 MHz SMD 5.0mmX5.0mm

MODEL NO.: TB0707A

preliminary

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

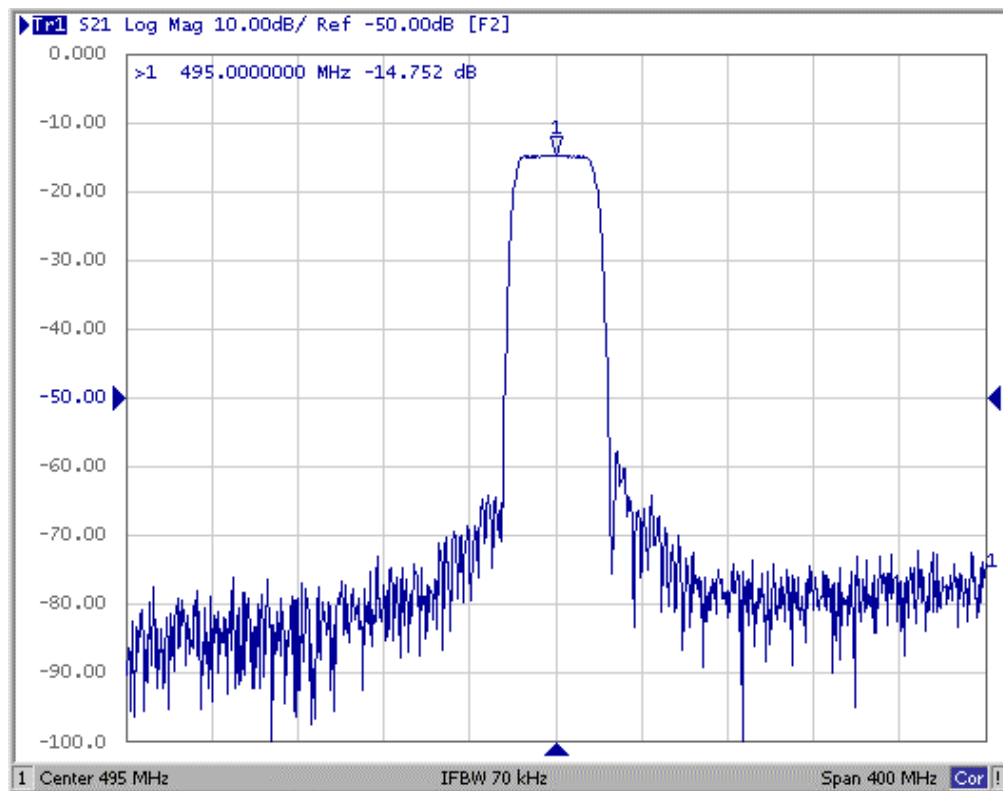
B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °

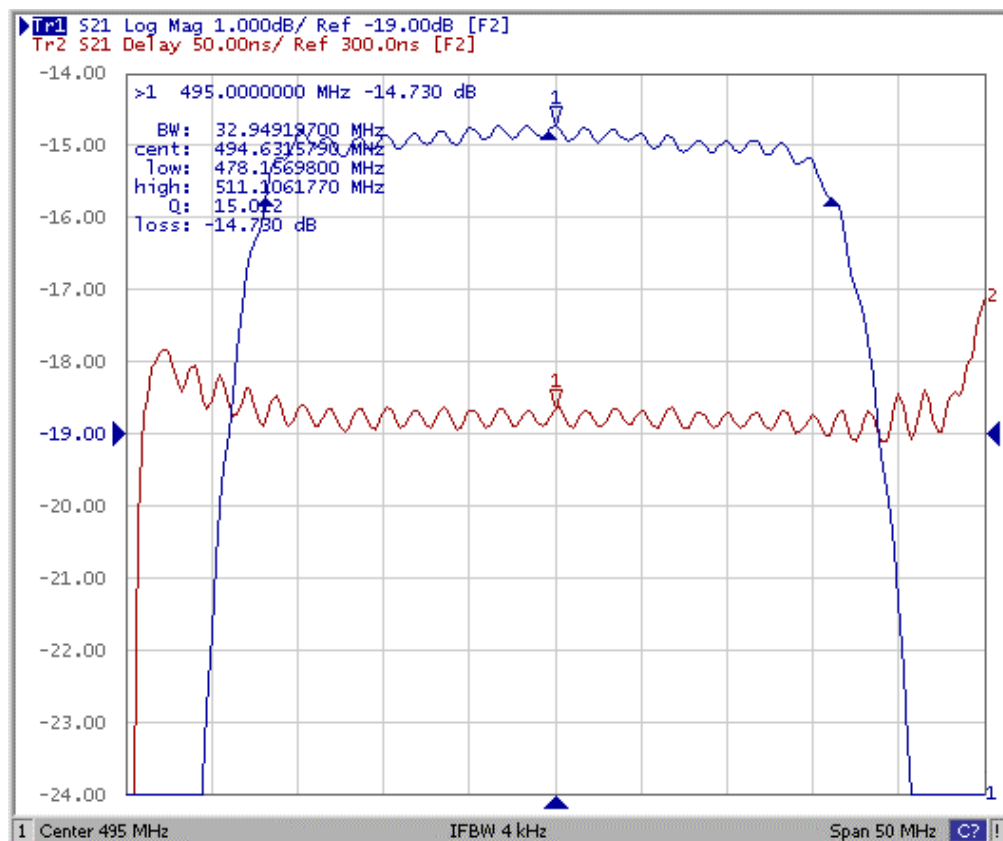
Item		Min.	Typical	Max.
Center frequency Fc	MHz	-	495	-
Insertion loss at Fc	dB	-	14.7	18
Bandwidth at -1.0dB	MHz	30.0	33.0	-
Bandwidth at -6.0dB	MHz	-	39.0	42.0
Bandwidth at -25.0dB	MhZ		46.0	50.0
Amplitude Ripple (Fc ± 15 MHz)	dB	-	0.4	1
Group Delay Ripple (Fc ± 15 MHz)	nS	-	30	100
Absolute Group delay at Fc	nS	-	310	-
Temp Coefficient	ppm/ C	-	-0.18	-

C. FREQUENCY CHARACTERISTICS :

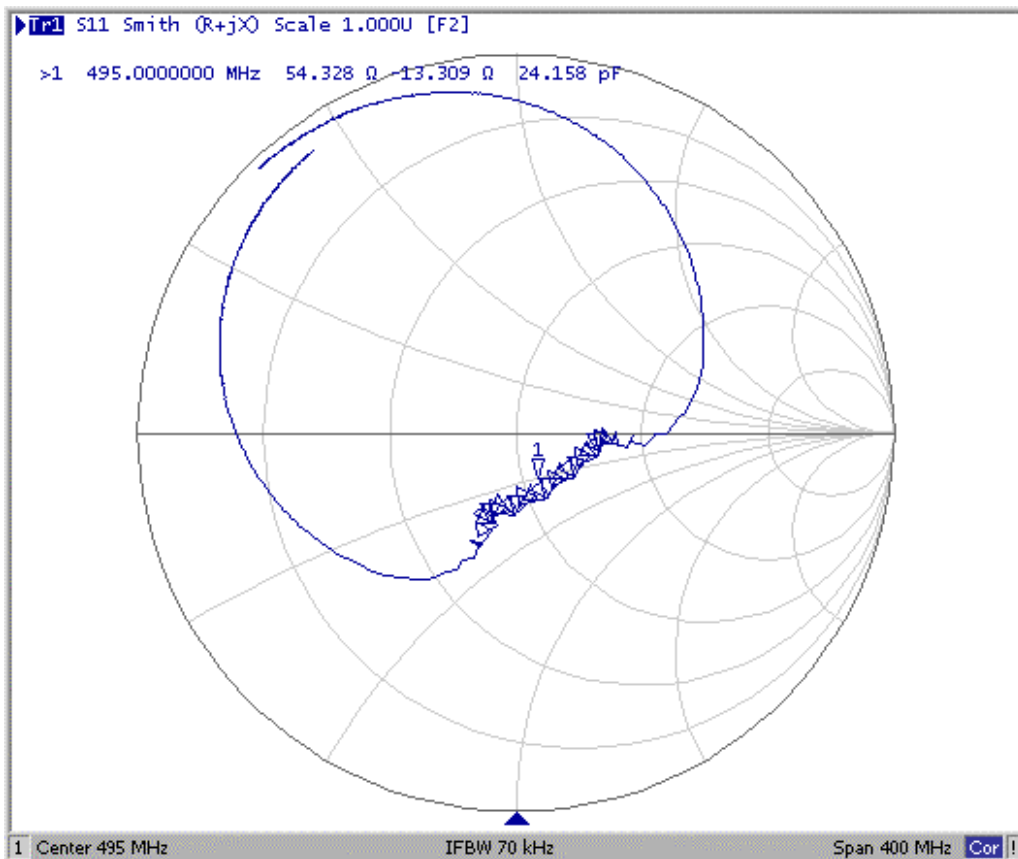
1.S21 Response: (span:400MHz)



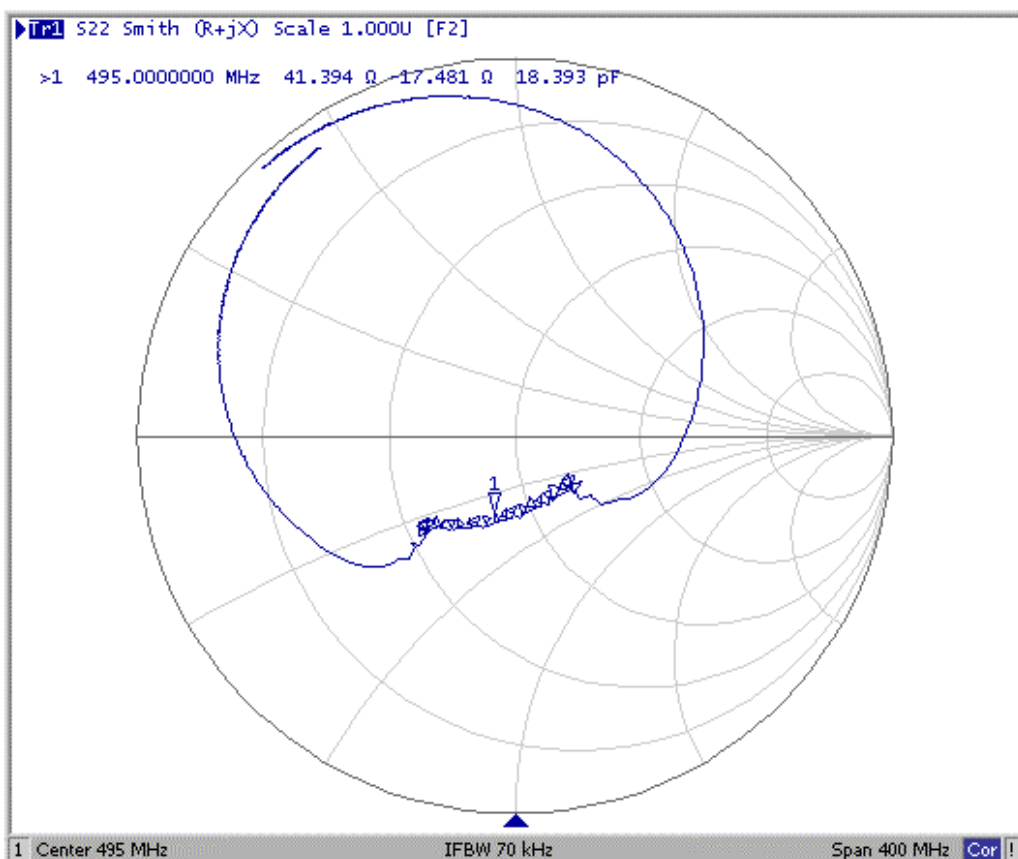
2.S21 Response: (span:50MHz)



3.S11 Smith-Chart: (span:400MHz)

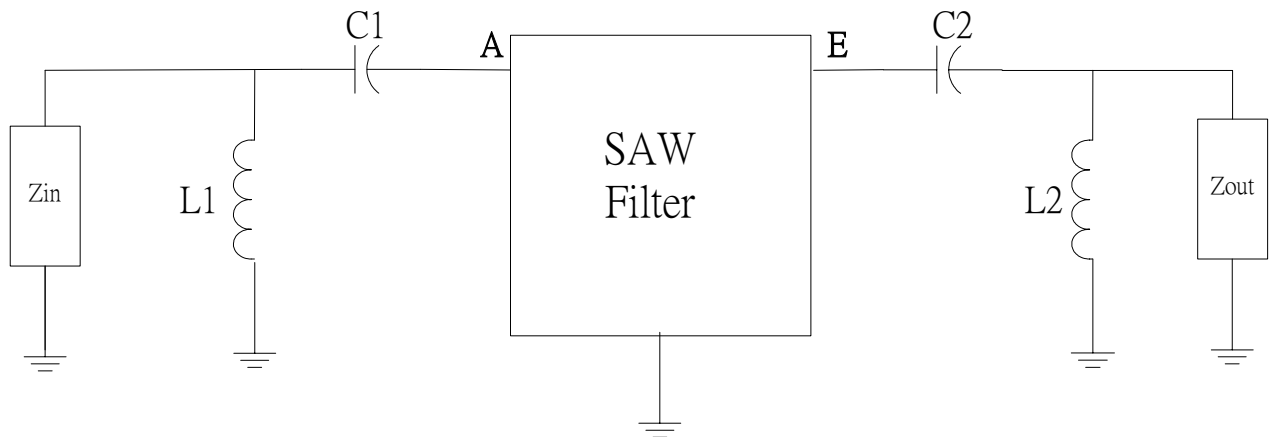


4.S22 Smith-Chart: (span:400MHz)



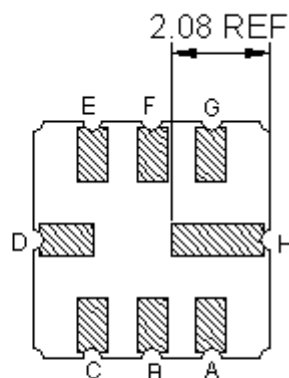
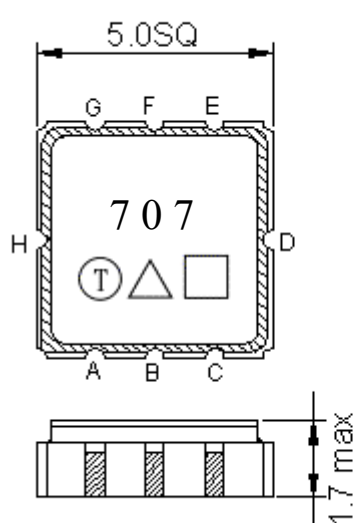
D. MEASUREMENT CIRCUIT

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



$C1=10.5\text{pF}$, $L1=5.6\text{nH}$, $C2=10\text{pF}$, $L2=5.6\text{nH}$

E.OUTLINE DRAWING:



Pin A : RF Input

Pin E : RF Output

Pin B,C,D,F,G,H : Ground

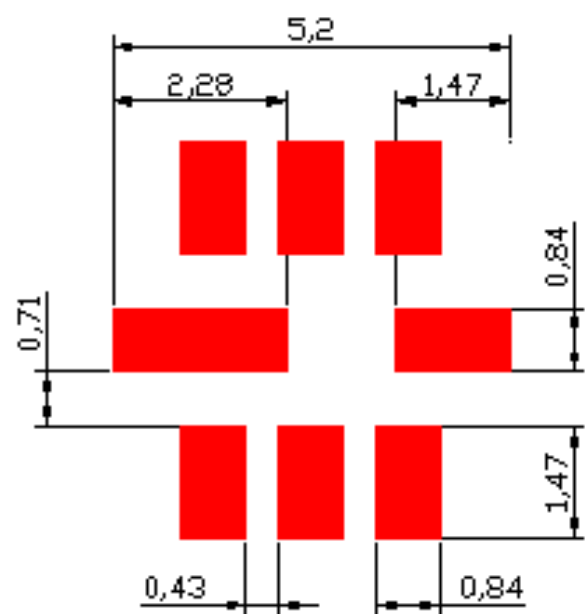
Unit: mm

□ : Week Code (Follow the table from planner each year)

△ : Product / Year Code

Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

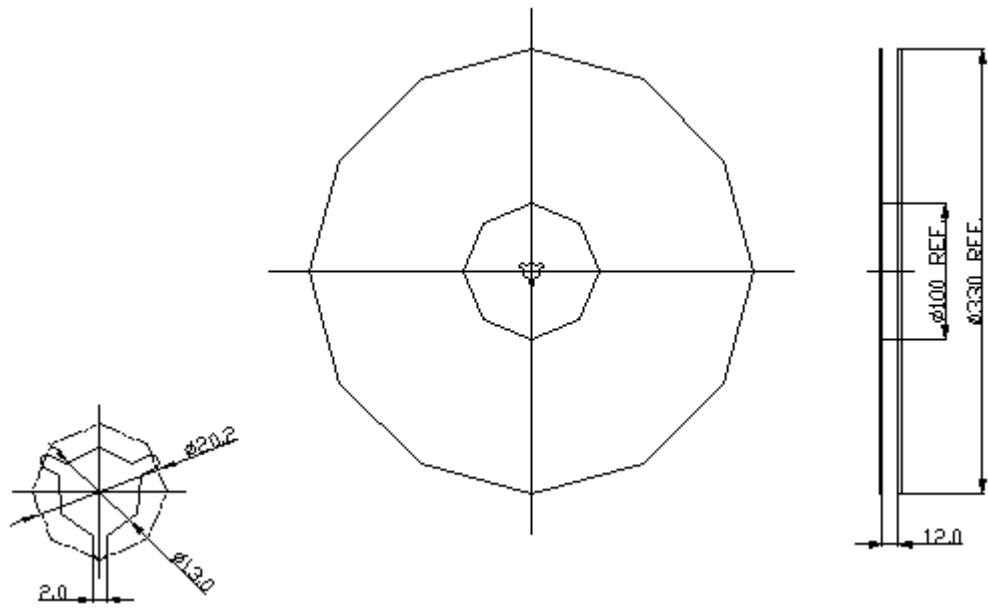
F. PCB Footprint



Unit: mm

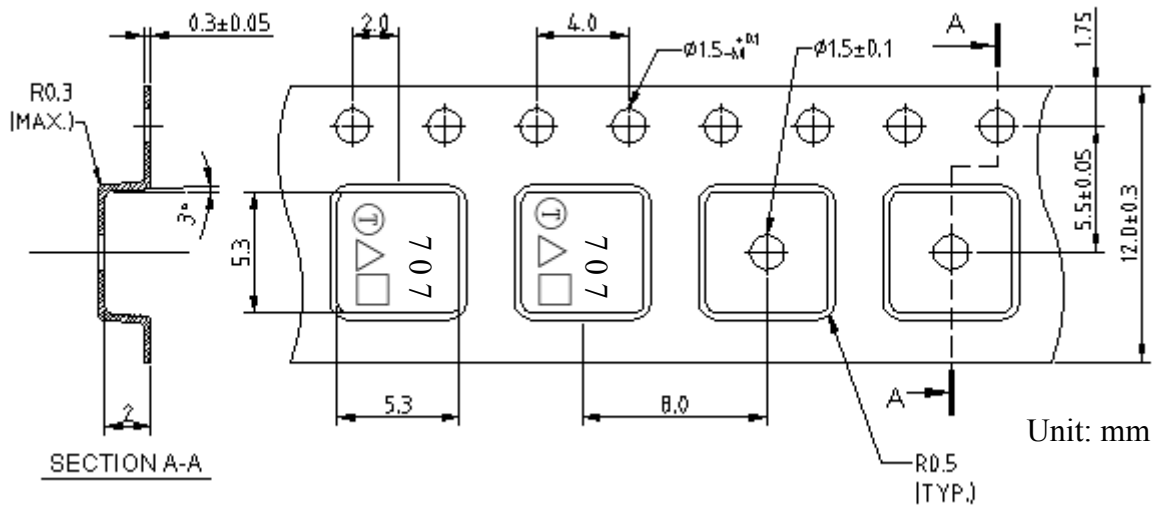
G. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

