



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet for Product Specification

Issued Date:

Product Name: 490MHz IF SAW Filter (BW=15 MHz)

TST Parts No.: TB0715A

Customer Parts No.: \_\_\_\_\_

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: Andy Yu *Andy*

Approval by: Francis Chen *(Signature)*

Date: 03/10/2009



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SAW Filter 490MHz (SMD 5.0×5.0 mm)

MODEL NO.: TB0715A

Rev. NO. 1.0

## A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operating Temperature: -20 °C ~ +70°C
3. Storage Temperature: -40 °C ~ +85 °C

RoHS Compliant  
Lead free  
Lead-free soldering

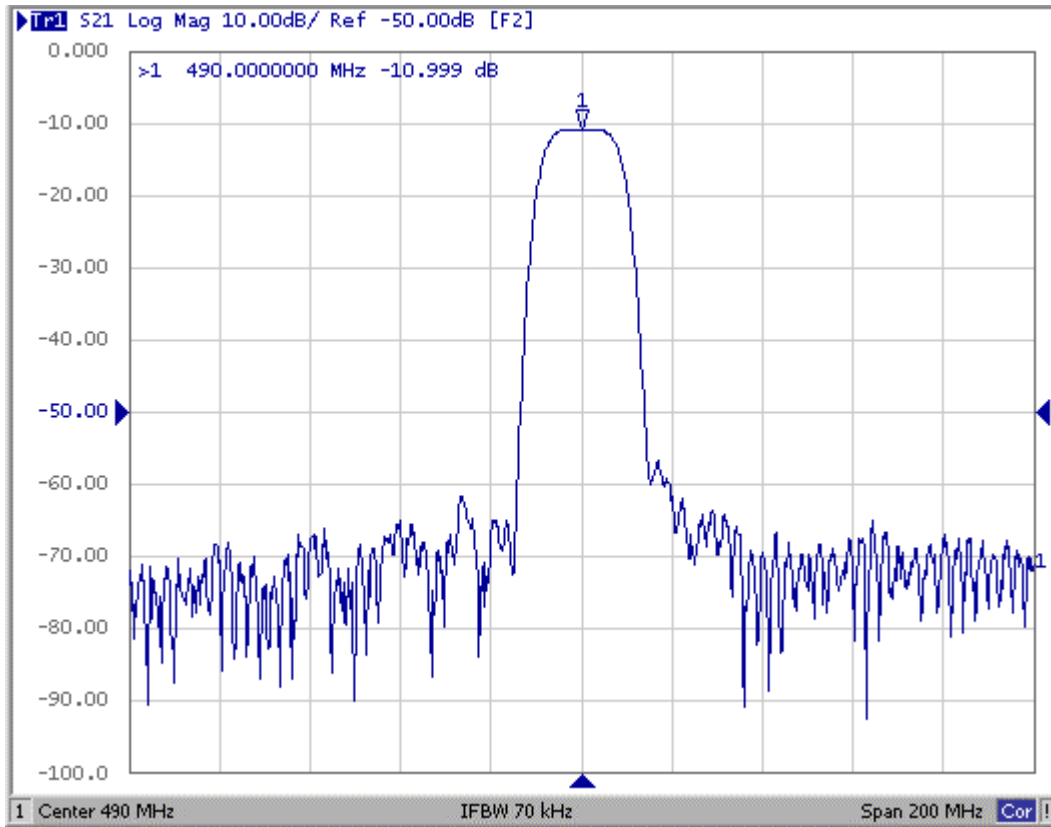
## B. Characteristics :

Ambient Temperature: 25 °

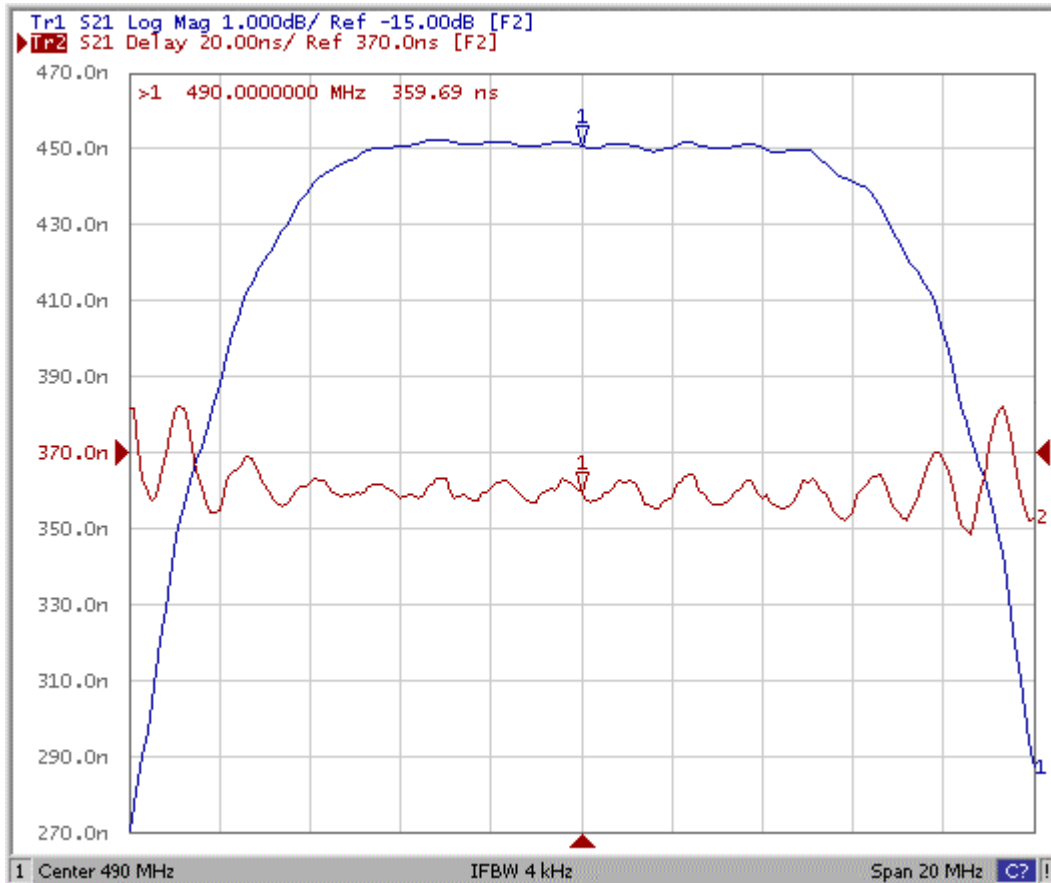
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency $F_c$ MHz	-	490	-	-
Minimum Insertion loss I.L. dB	-	10.9	15.0	-
3 dB Bandwidth MHz	15.0	16.2	-	-
40 dB Bandwidth	-	27.5	28.0	-
Amplitude Ripple ( $F_c \pm 5.0\text{MHz}$ ) dB	-	0.3	1.0	-
Group-delay Ripple ( $F_c \pm 6.0\text{MHz}$ ) nsec	-	12	40	-
Temp Coefficient ppm/°C	-	-18	-	-
Attenuation (Reference level from Minimum insertion loss)				
506MHz dB	45	49	-	-

### C. FREQUENCY CHARACTERISTICS:

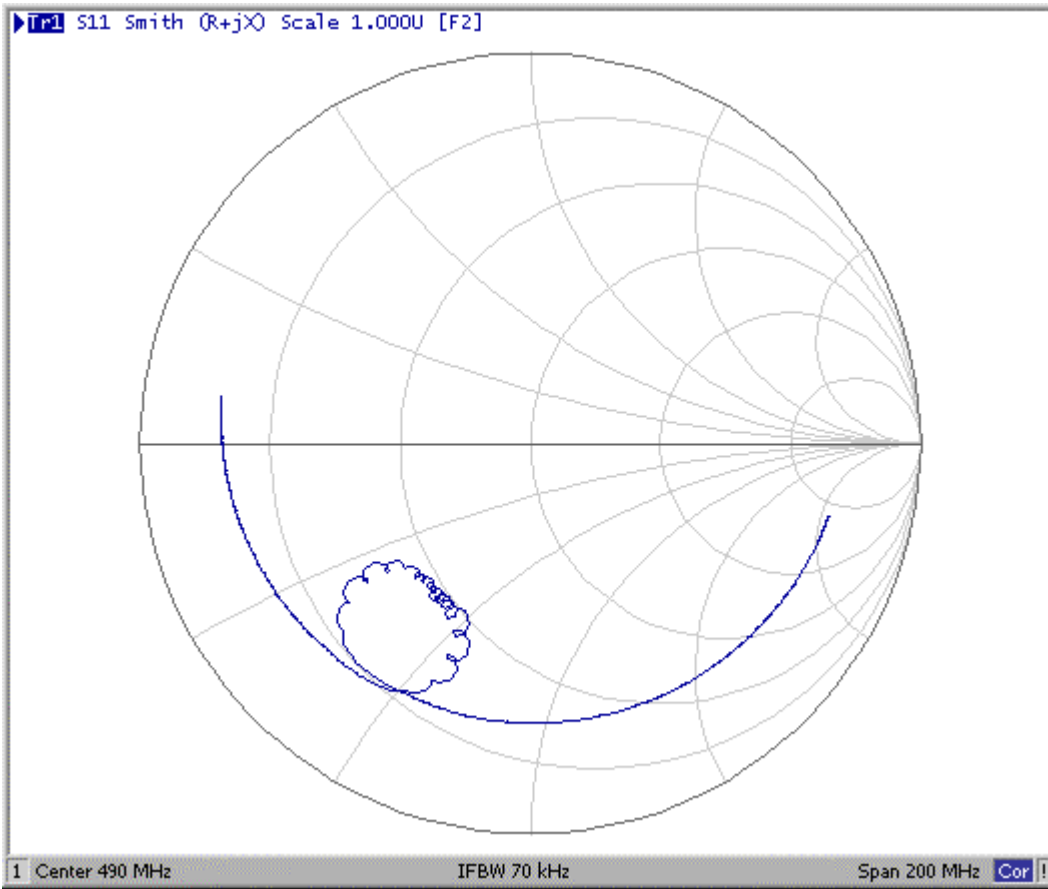
(1) S21 Response:(span 200MHz)



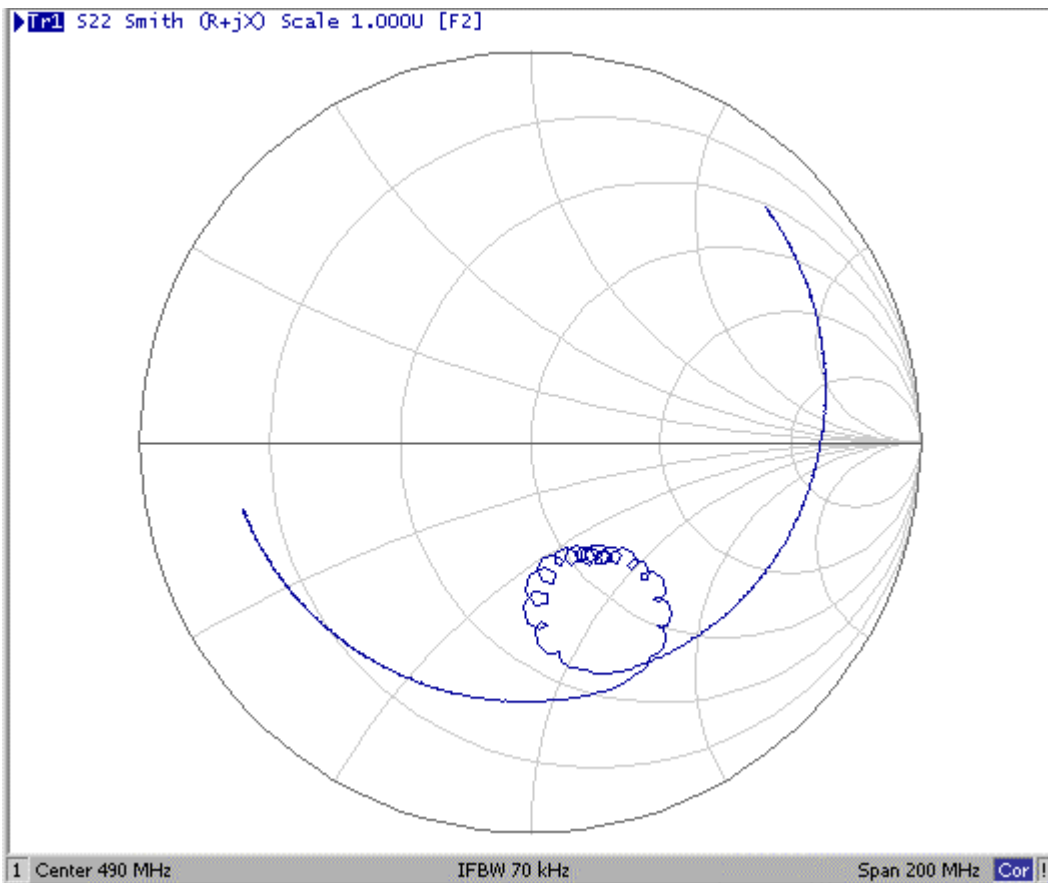
(2) Passband of Response: (span: 20MHz)



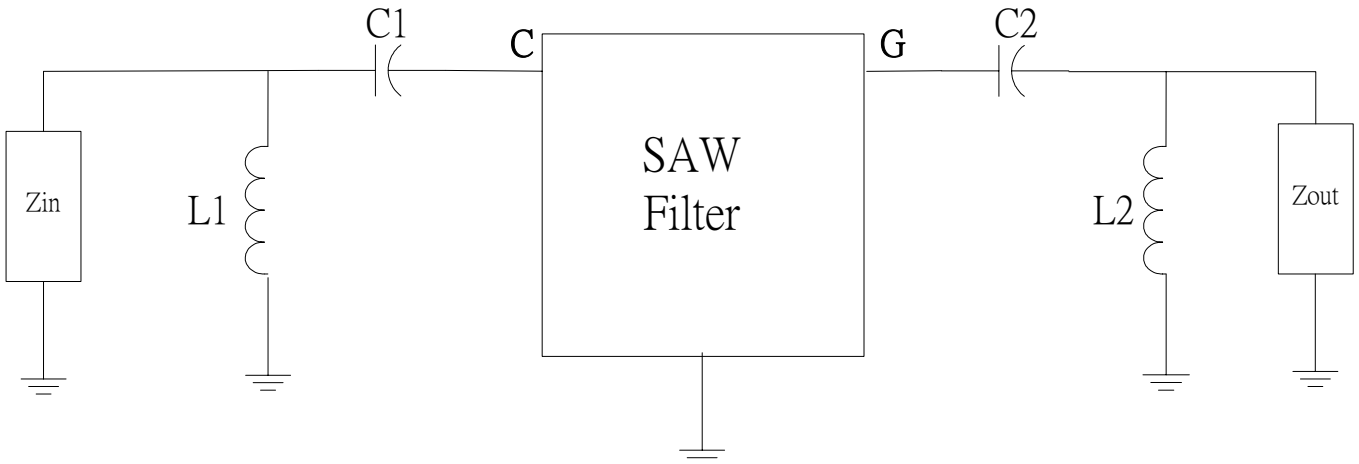
(3) S11 Smith Chart: (span 200MHz)



(4) S22 Smith Chart: (span 200MHz)



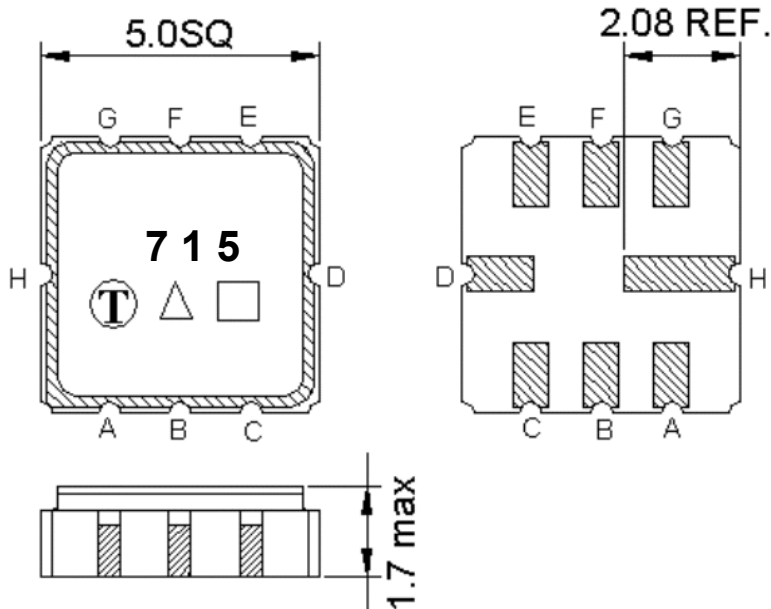
D. TEST CIRCUIT:



Zin and Zout are 50Ω

L1=15nH, C1=24p, L2=12nH, C2=24p,

E. OUTLINE DRAWING:



Pin C: RF input

Pin G: RF output

Pin H,D: Case Ground

Pin A, B, E, F: Ground

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

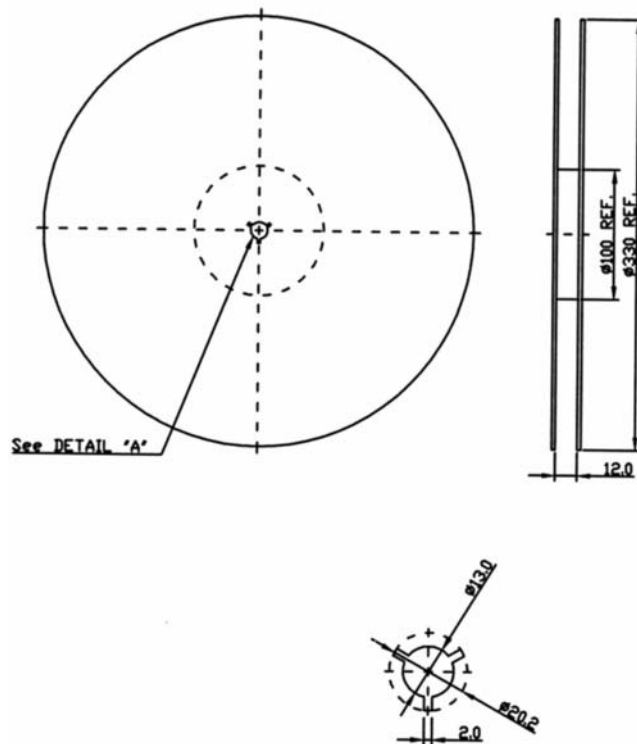
Unit : mm

△ : Product / Year Code

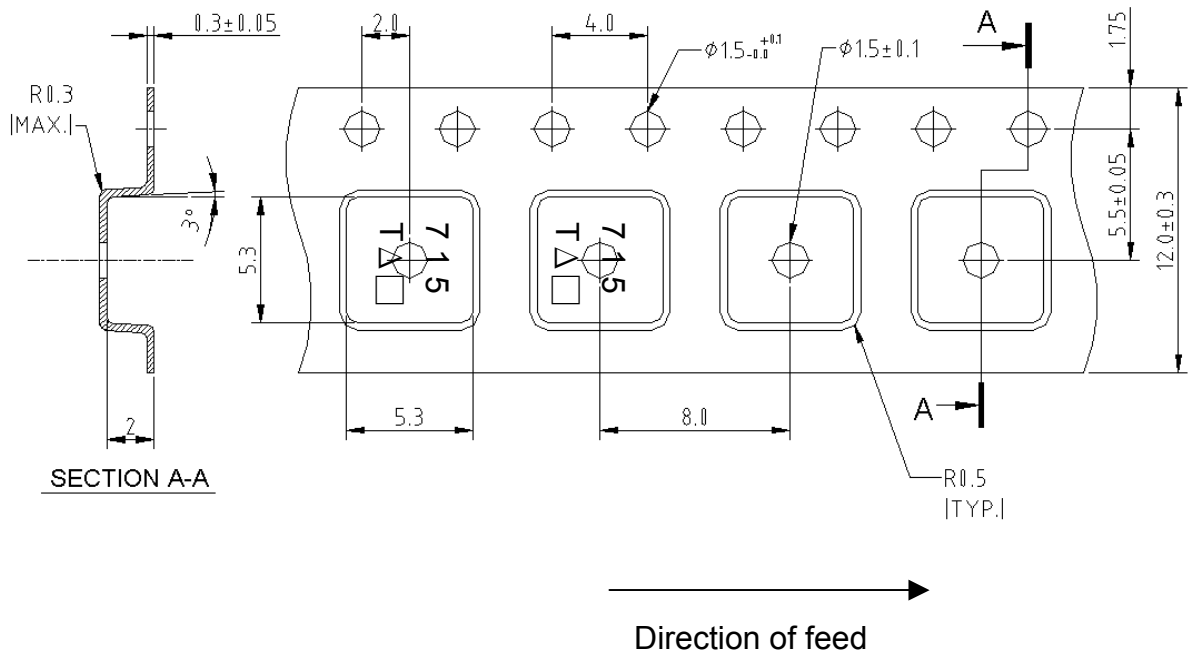
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

**F.PACKING:**

**1.REEL DIMENSION**



**2.TAPE DIMENSION**



G. Recommended Reflow Profile:

