



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet for Product Specification

Issued Date:

Product Name: 480MHz IF SAW Filter (BW=15 MHz)

TST Parts No.: TB0714A

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 480MHz (SMD 5.0×5.0 mm)

MODEL NO.: TB0714A

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

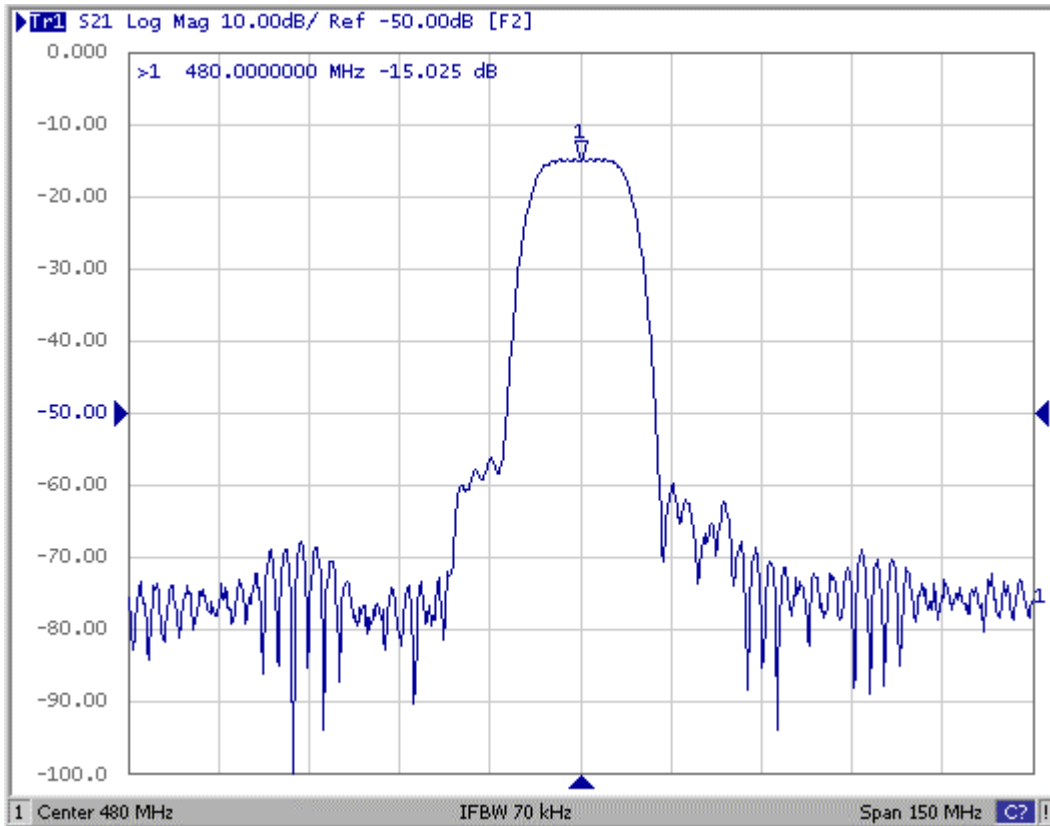
## B. Characteristics :

Ambient Temperature: 25 °

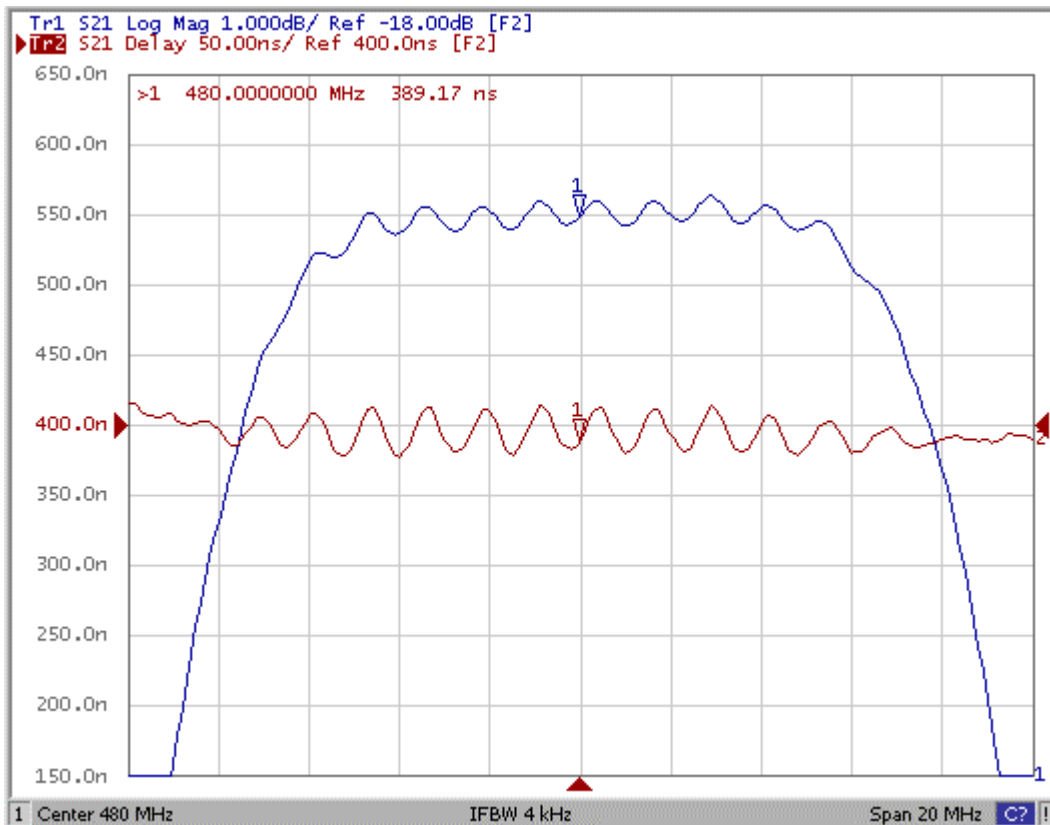
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency $F_c$ MHz	-	480	-	-
Minimum Insertion loss I.L. dB	-	14.7	17.0	-
3 dB Bandwidth MHz	15.0	15.2	-	-
40 dB Bandwidth	-	25.6	27.0	-
Amplitude Ripple ( $F_c \pm 5.0\text{MHz}$ ) dB	-	0.5	1.0	-
Group-delay Ripple ( $F_c \pm 6.0\text{MHz}$ ) nsec	-	35	50	-
Temp Coefficient ppm/°C	-	-18	-	-
Attenuation (Reference level from Minimum insertion loss)				
498~502MHz dB	43	49	-	-

### C. FREQUENCY CHARACTERISTICS:

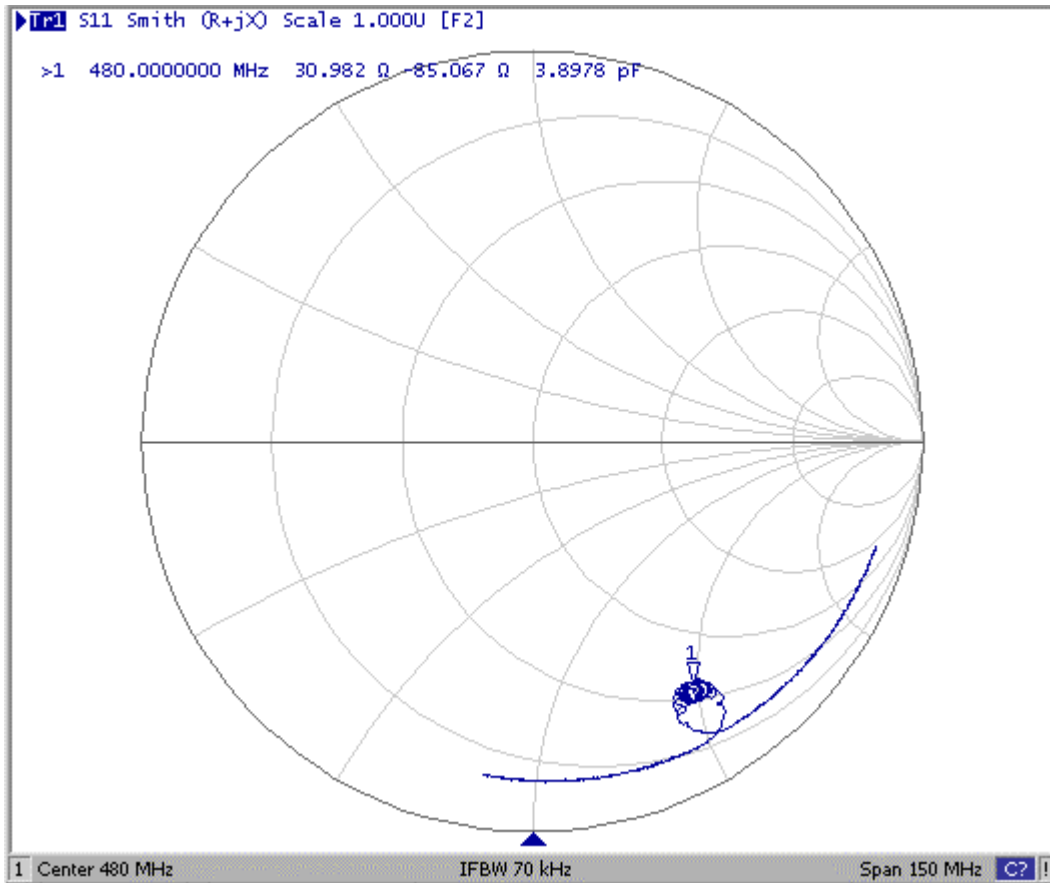
(1) S21 Response:(span 150MHz)



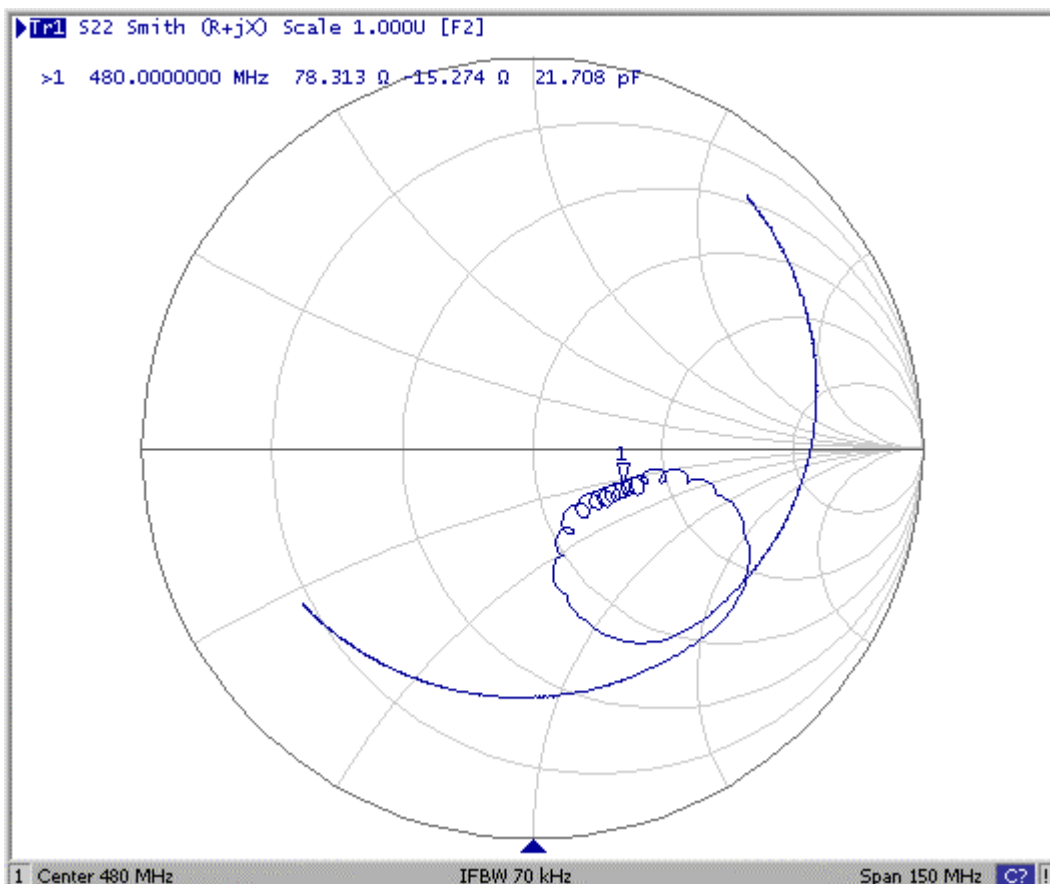
(2) Passband of Response: (span: 20MHz)



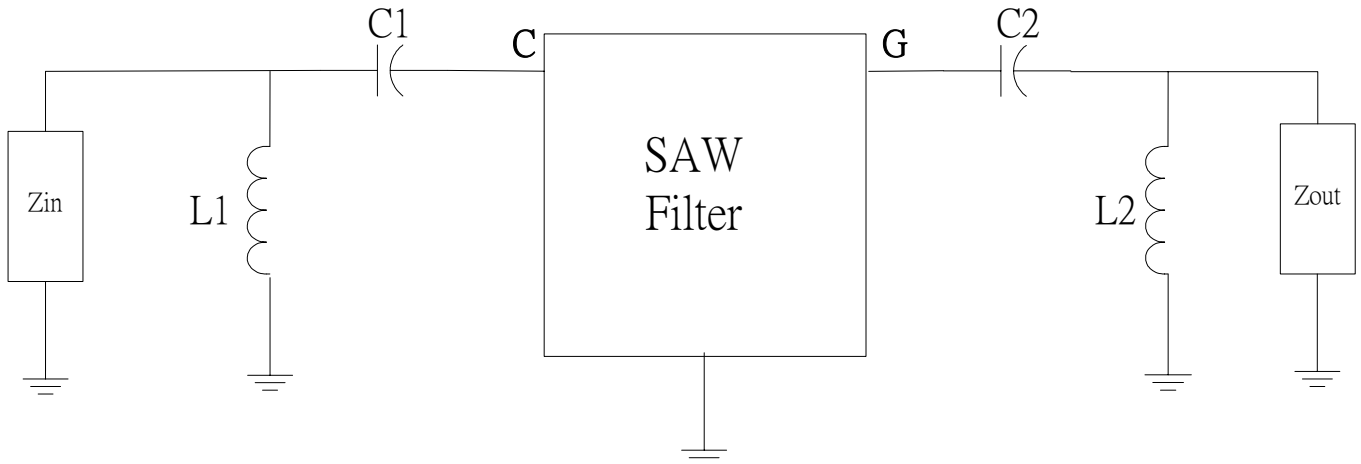
(3) S11 Smith Chart: (span 150MHz)



(4) S22 Smith Chart: (span 150MHz)



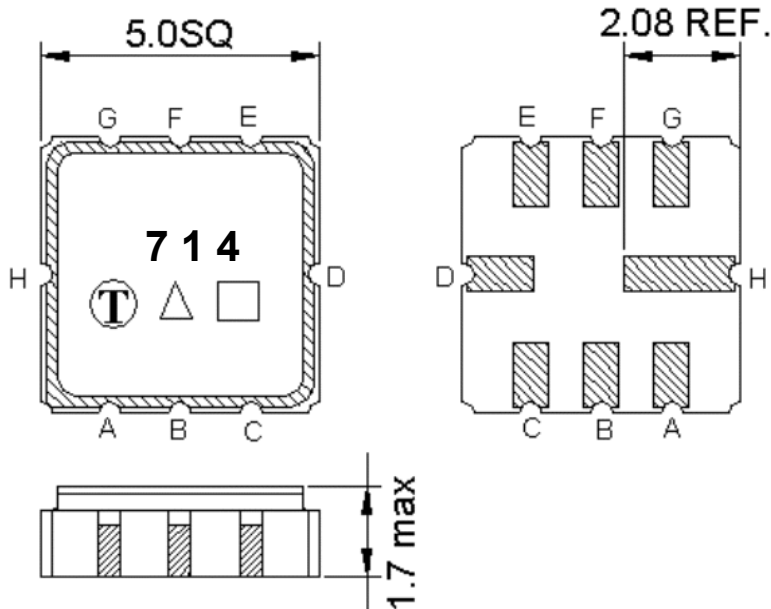
D. TEST CIRCUIT:



Zin and Zout are 50Ω

L1=27nH, C1=6.8pF, L2=10nH, C1=30pF,

E. OUTLINE DRAWING:



Pin C: RF input

Pin G: RF output

Pin H,D: Case Ground

Pin A, B, E, F: Ground

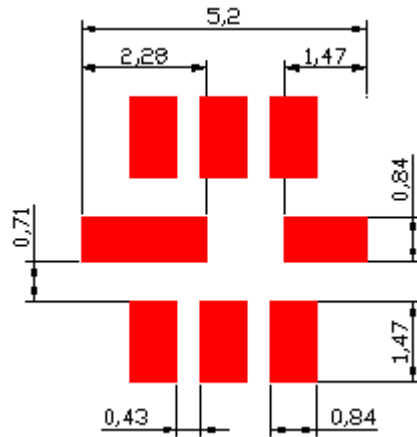
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

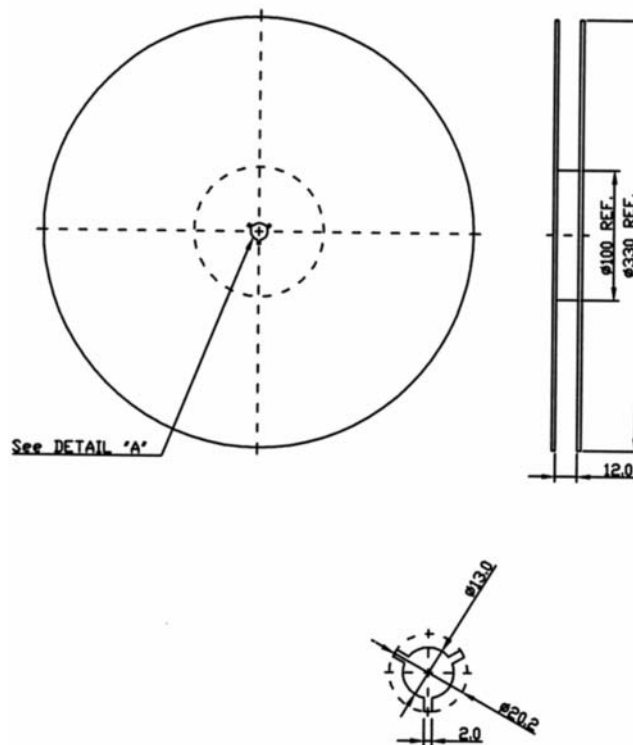
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

F.FOOTPRINT:

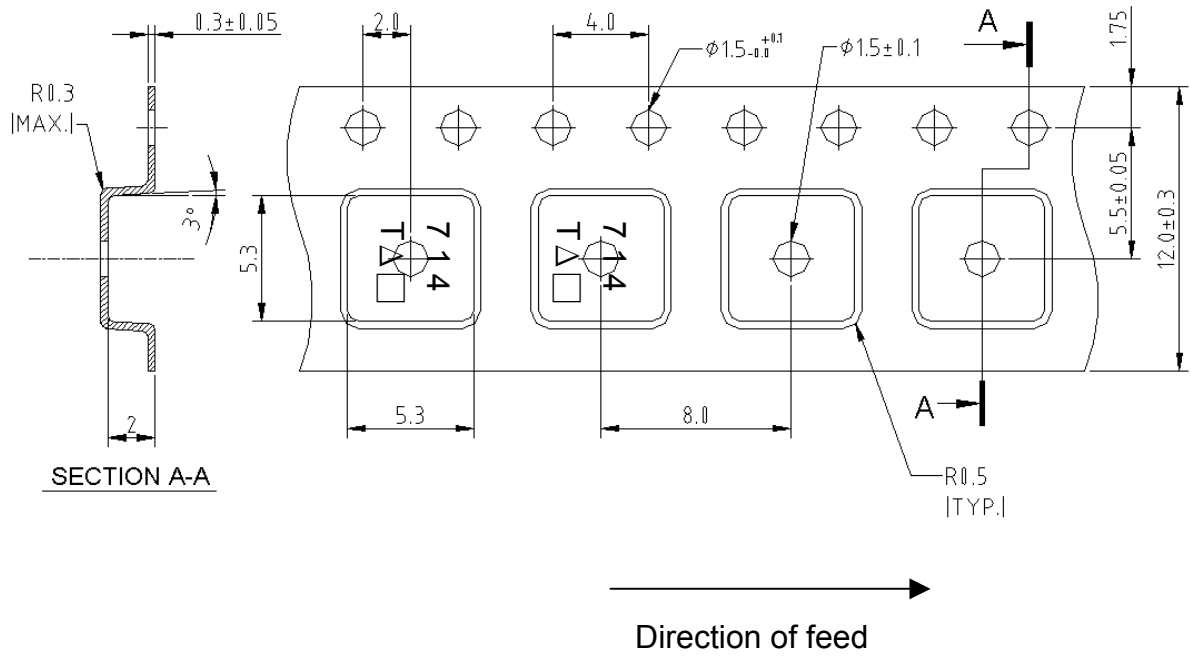


G.PACKING:

1. REEL DIMENSION



## 2.TAPE DIMENSION



## H. Recommended Reflow Profile:

