



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: 480MHz IF SAW Filter (BW=54MHz)

TST Parts No.: TB0729A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu *Andy Yu*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2018/07/19

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 480MHz (SMD 5.0×5.0 mm)

MODEL NO.: TB0729A

Rev. NO. 2.0

A. MAXIMUM RATING:

1. Operating Temperature: -30 °C ~ 70 °C
2. Storage Temperature: -40 °C ~ +85 °C
3. Moisture Sensitivity Level: Level 1 (MSL1)

RoHS Compliant
Lead free
Lead-free soldering

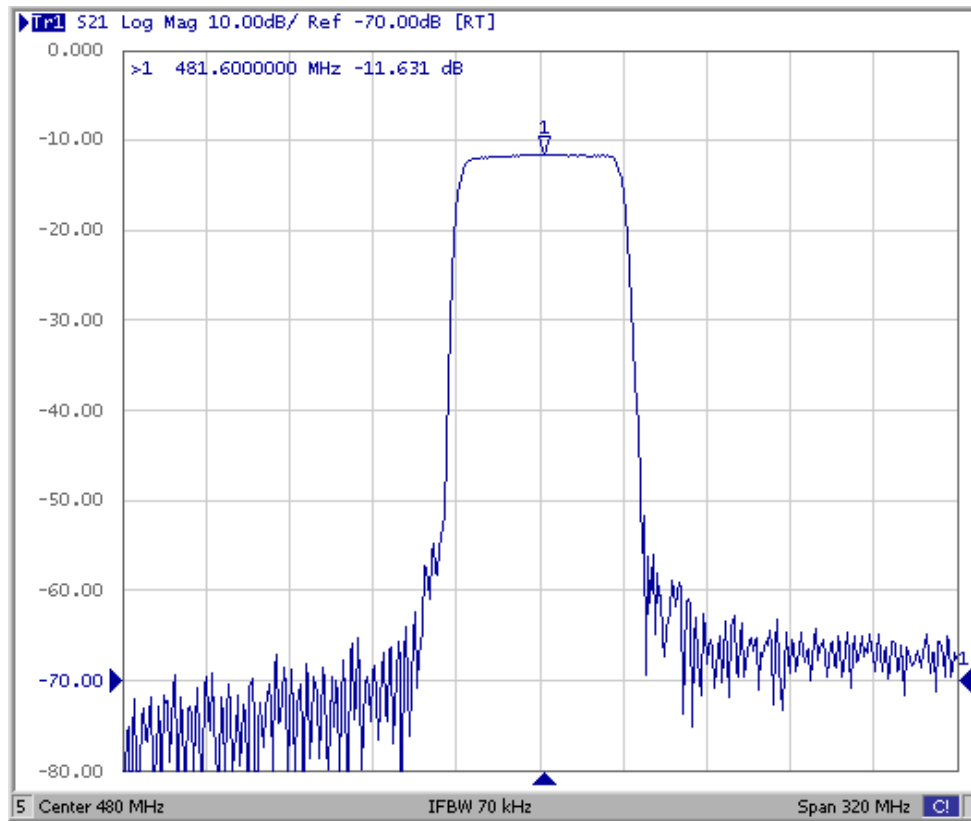
B. Characteristics :

Ambient Temperature: 25 °C

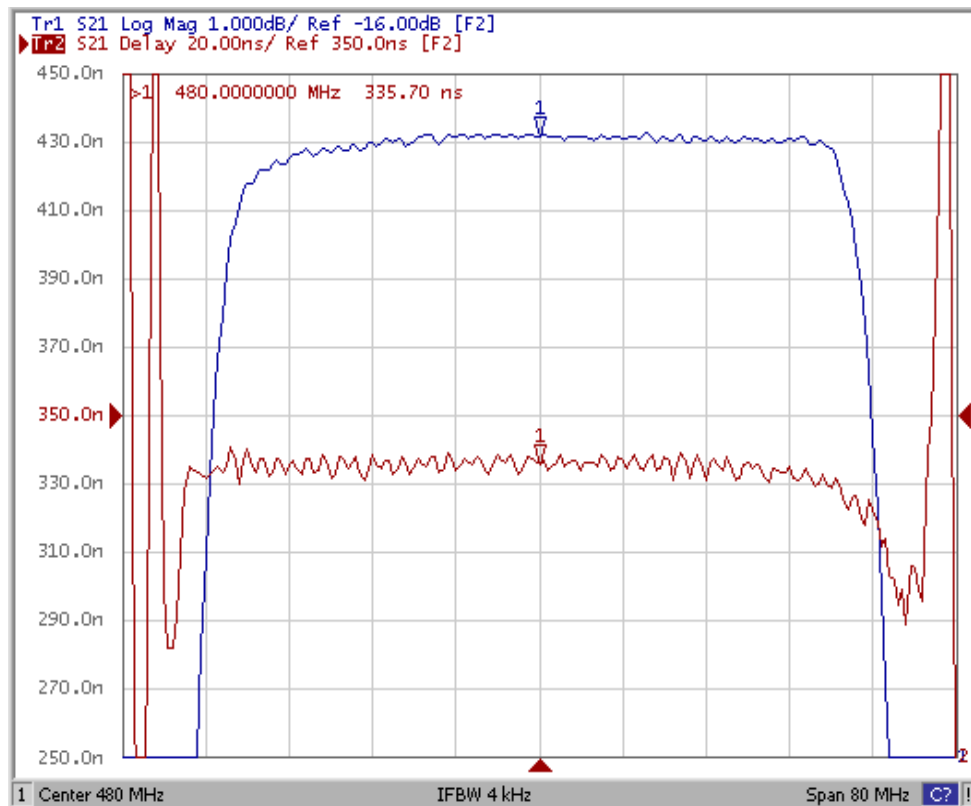
Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	479.5	480	480.5
Max Insertion Loss	dB	-	11.5	15.0
1 dB Bandwidth	MHz	54	58.0	-
3 dB Bandwidth	MHz	56	62.0	-
Pass band Ripple Fc±27MHz	dB	-	0.6	1.2
Group delay 453~507MHz	ns		10	40
Relative Attenuation: (Reference level from Max IL)				
320MHz to 440MHz	dB	35	44	-
520MHz to 640MHz	dB	35	43	-
Matching: 1.The input of the filter will be matched to <u>50 ohm</u> 2.The output of the filter will be matched to <u>50 ohm</u>				

C.FREQUENCY CHARACTERISTICS:

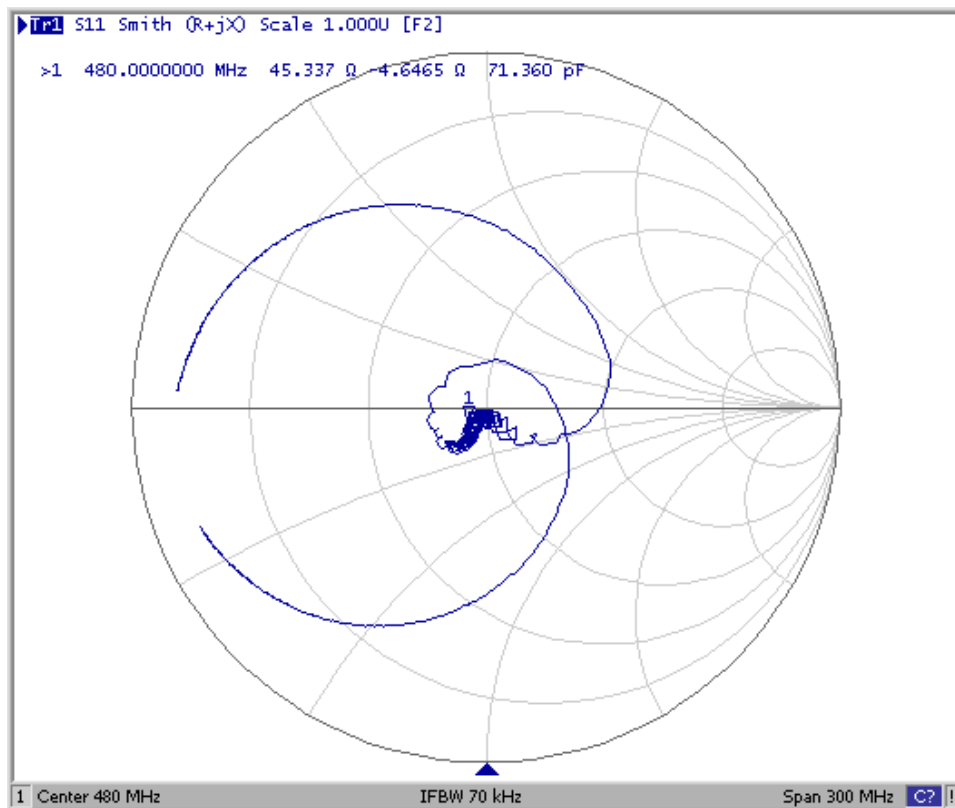
(1) S21 Response:(span 320MHz)



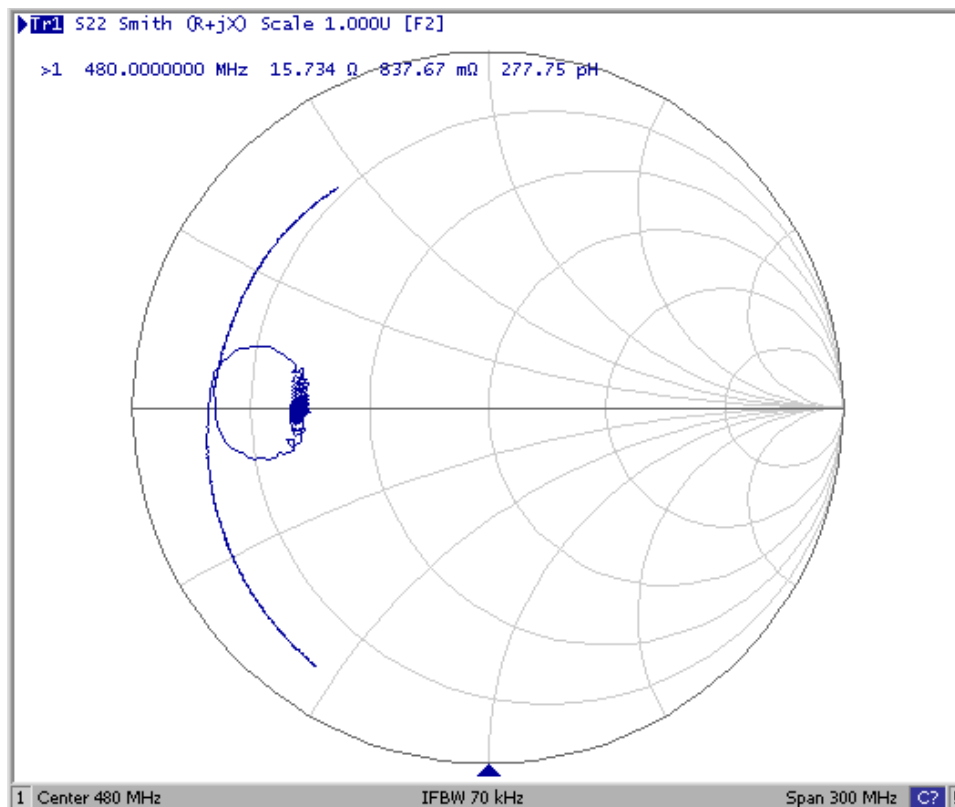
(2) Passband of Response: (span: 80MHz)



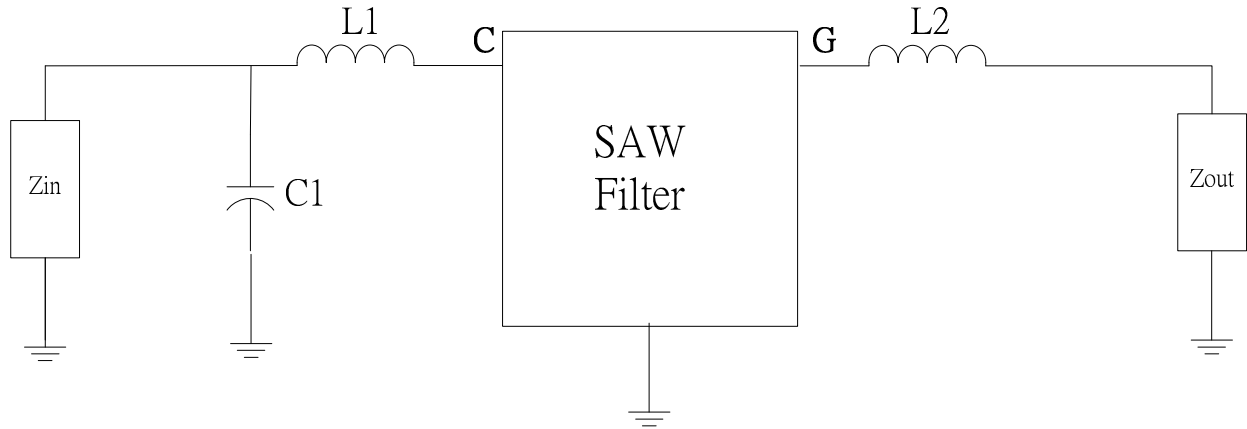
(3) S11 Smith Chart: (span 300MHz)



(4) S22 Smith Chart: (span 300MHz)

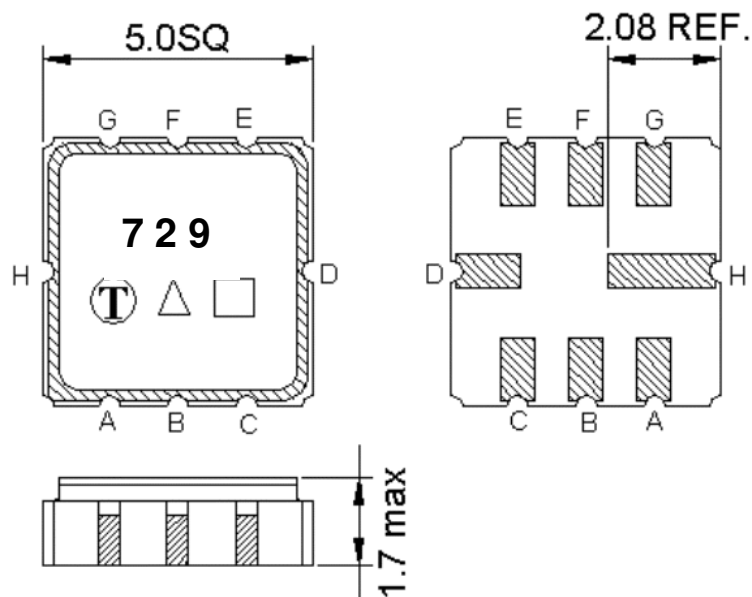


D. TEST CIRCUIT:



Z_{in} and Z_{out} are 50Ω
 $L1=15nH$, $C1=10pF$, $L2=2.7nH$

E. OUTLINE DRAWING:



Pin C: RF input

Pin G: RF output

Pin H,D: Case Ground

Pin A, B, E, F: Ground

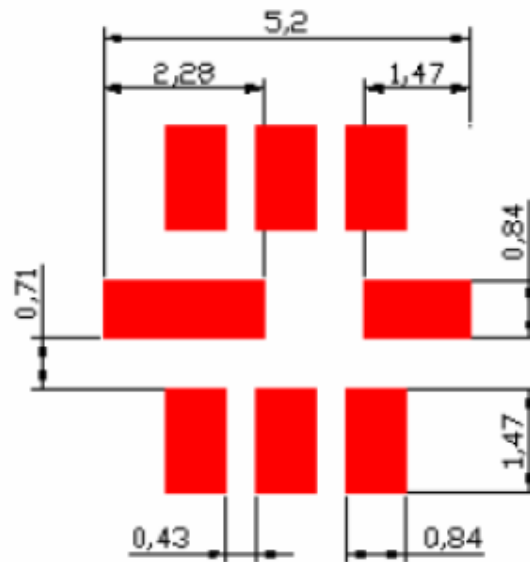
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

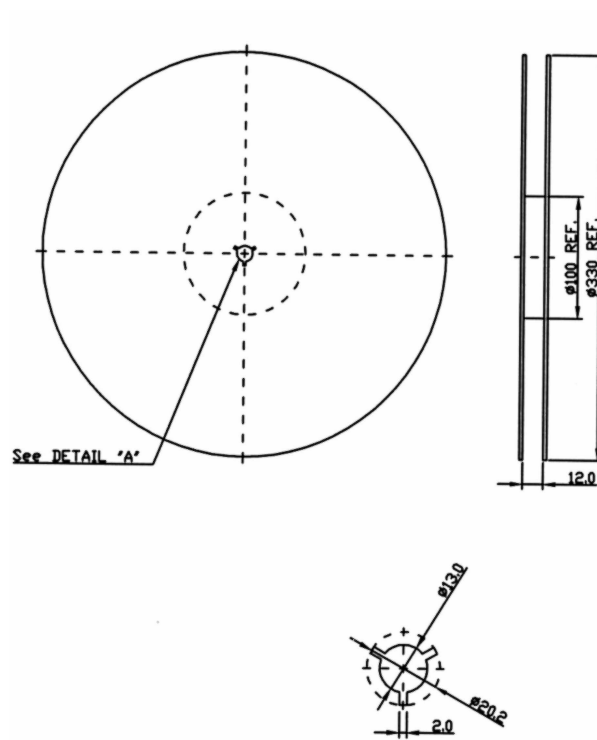
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

F. OUTLINE DRAWING:



G. PACKING:

1. REEL DIMENSION



0.3±0.05

R0.3 [MAX.]

3°

2

5.3

SECTION A-A

2.0

4.0

1.75

5.5±0.05

12.0±0.3

5.3

8.0

7 2 9

7 2 9

7 2 9

7 2 9

φ1.5_{-0.0}^{+0.1}

φ1.5±0.1

A

A

R0.5 [TYP.]

Direction of feed

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 245~260℃ peak (min. 10sec).
4. Time : 2 times.

