



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet for Product Specification

Issued Date:

Product Name: 435.5MHz IF SAW Filter (BW=27 MHz)

TST Parts No.: TB0490A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu

Approval by: _____ Francis Chen

Date: _____ 04/19/2007



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SAW Filter 435.5MHz (SMD 5.0×5.0 mm)

MODEL NO.: TB0490A

Rev. NO. 1.0

A. MAXIMUM RATING:

1. Operating Temperature: -20 °C ~ 70 °C
2. Storage Temperature: -40 °C ~ +85 °C

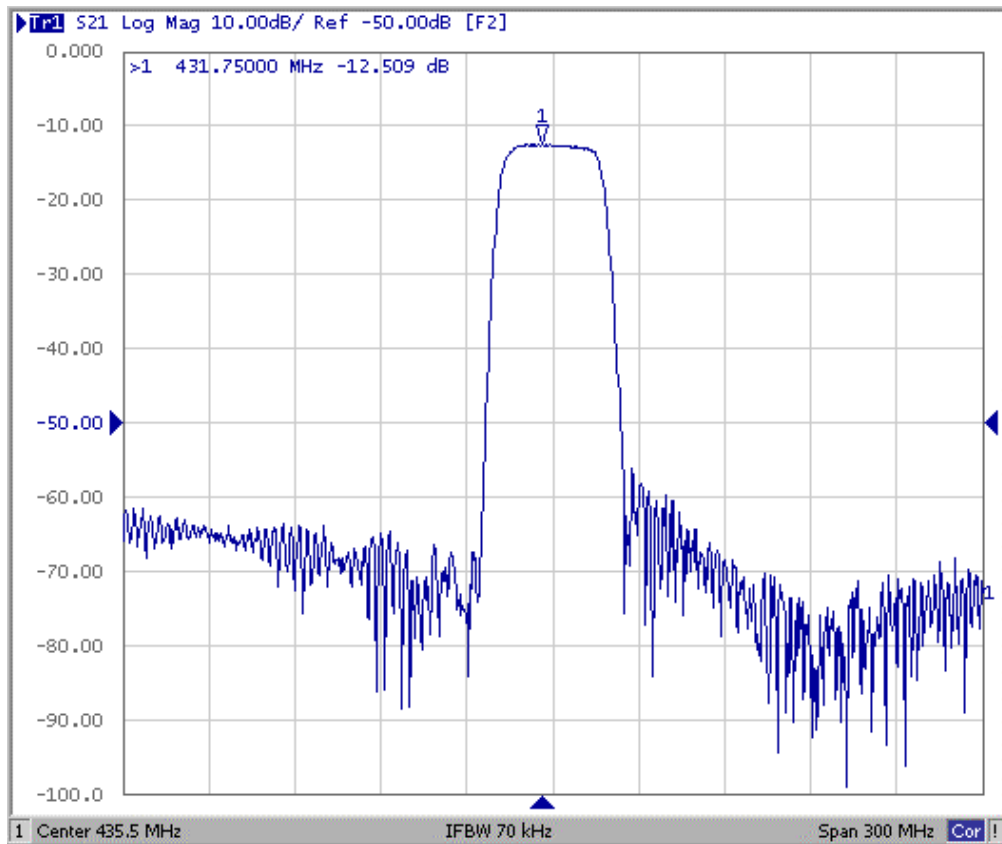
RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

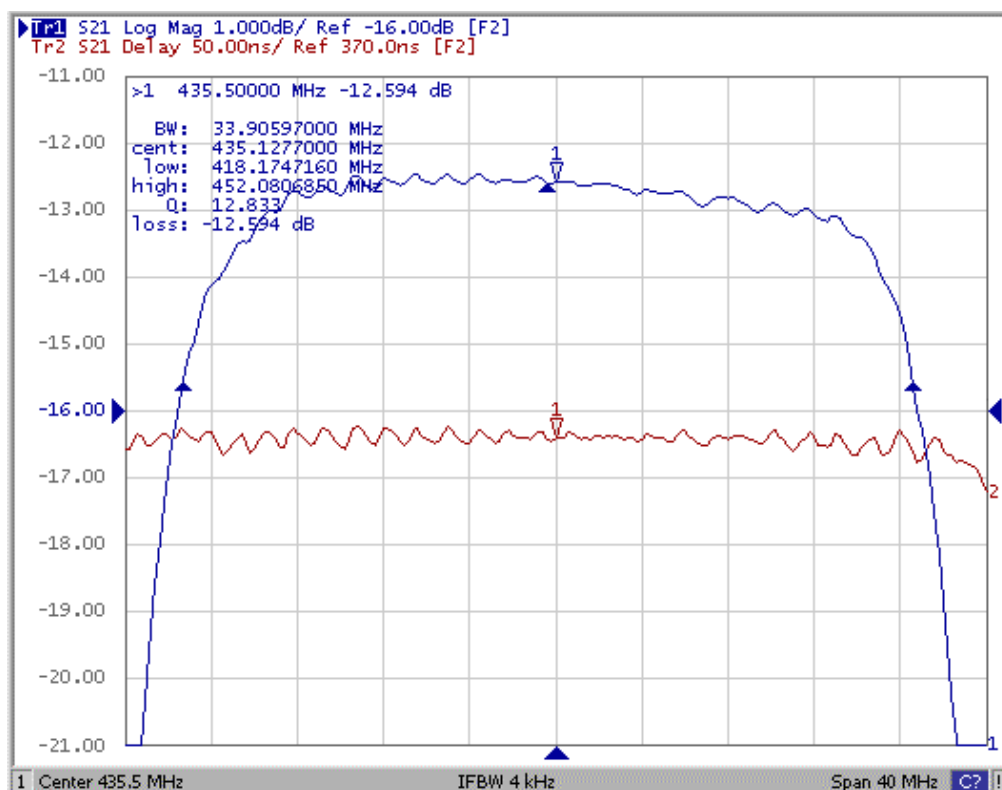
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	435.5	-	-
Minimum Insertion loss I.L. dB	-	12.4	13.5	-
3dB BW MHz	27	33.9	-	
Amplitude Ripple ($F_c \pm 13.5\text{MH}$) dB	-	0.9	1.2	-
Relative Rejection (Reference to Minimum Insertion loss)				
$F_c + 35.5\text{MH}$ dB	35	52	-	-
$F_c - 35.5\text{MH}$ dB	35	54	-	-
$F_c + 57.5\text{MH}$ dB	45	59	-	-
$F_c - 57.5\text{MH}$ dB	45	53	-	-
Temp Coefficient ppm/K	-	-94	-	-
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:

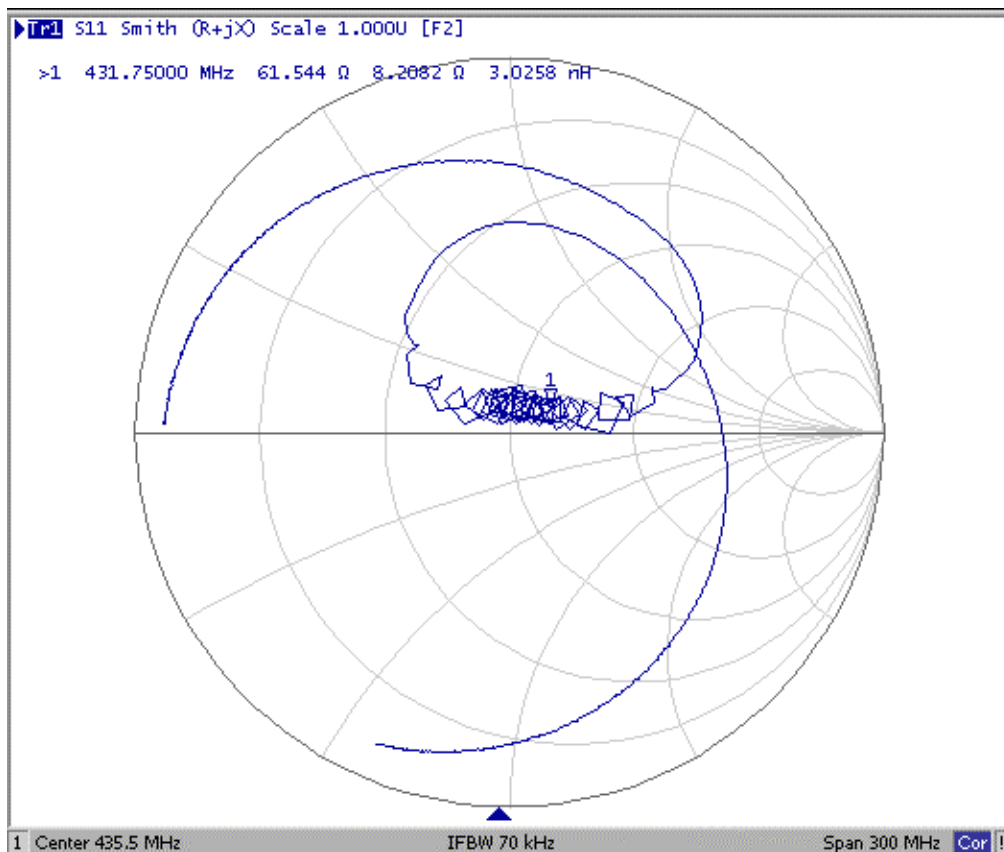
(1) S21 Response: (span 300MHz)



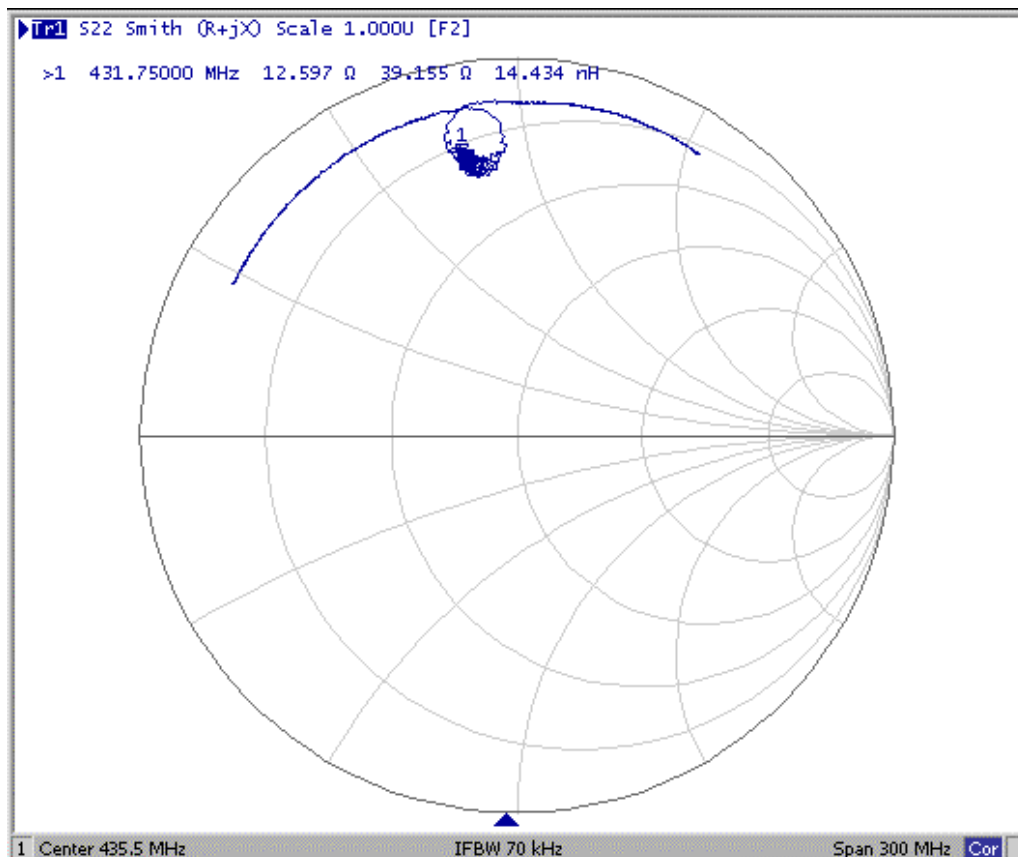
(2) Passband of Response: (span: 40MHz)



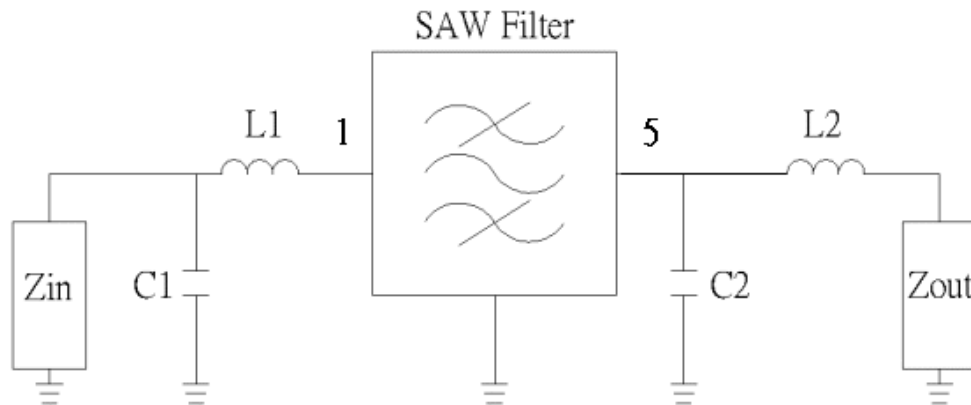
(3) S11 Smith Chart: (span 300MHz)



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



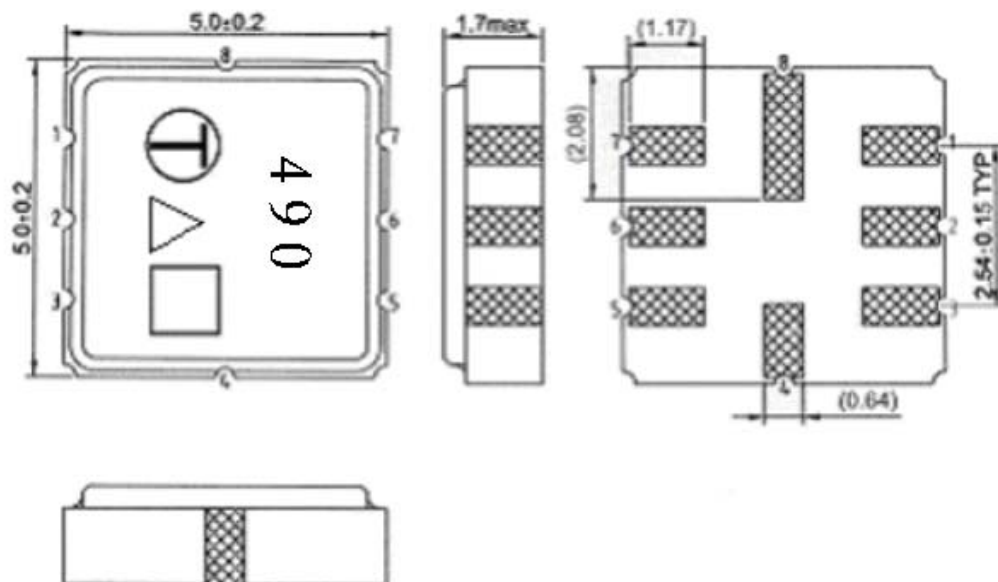
D. TEST CIRCUIT:



Z_{in} and Z_{out} are 50Ω

$L1=6.8nH$, $C1=10pF$, $L2=8.2nH$, $C2=12pF$

E. OUTLINE DRAWING:



Pin 1: RF input

Pin 5: RF output

Pin 4,8: Case Ground

Pin 2,3,6,7: Ground

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

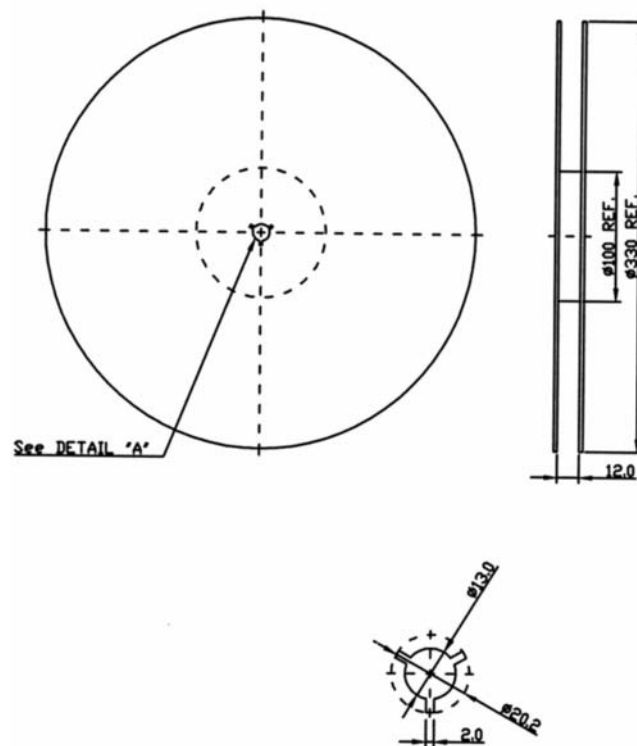
Unit : mm

△ : Product / Year Code

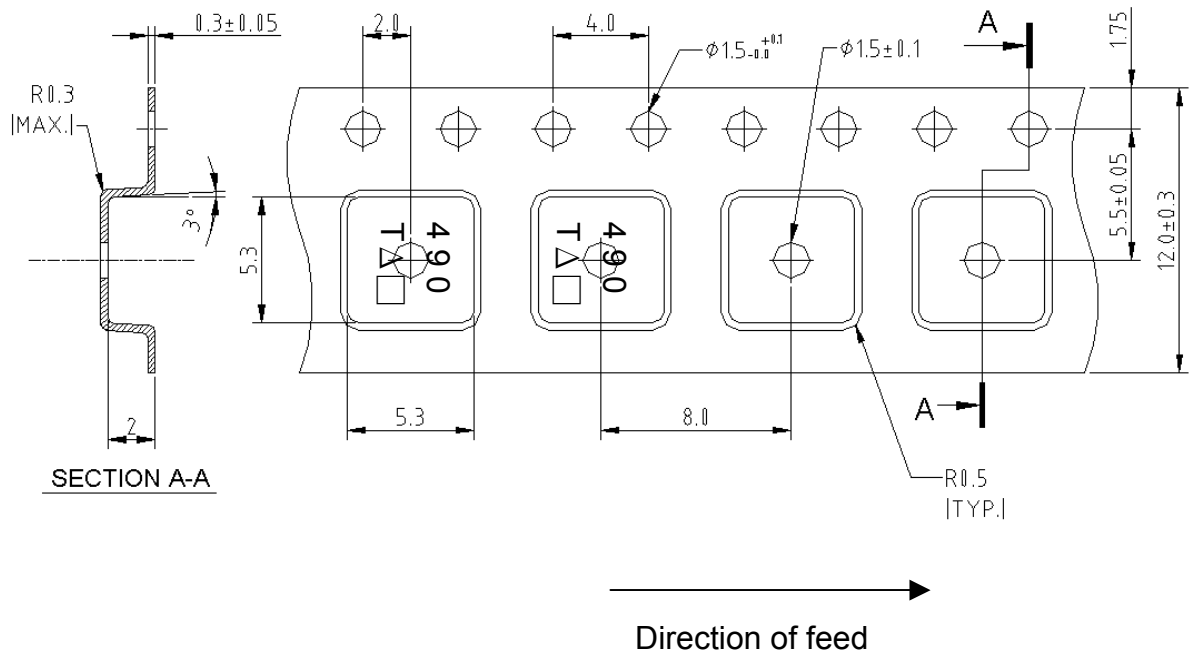
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



G. Recommended Reflow Profile:

