



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet for Product Specification

Issued Date:

Product Name: 280MHz IF SAW Filter (BW=15 MHz)

TST Parts No.: TB0703A

Customer Parts No.: _____

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

Checked by: _____ Andy Yu *Andy*

Approval by: _____ Francis Chen *Francis*

Date: _____ 07/01/2009

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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FR-71S03-01

SAW Filter 280MHz (SMD 5.0×5.0 mm)

MODEL NO.: TB0703A

Rev. NO. 1.0

A. MAXIMUM RATING:

1. Operating Temperature: -40°C ~ +85°C

2. Storage Temperature: -40°C ~ +85°C

RoHS Compliant
Lead free
Lead-free soldering

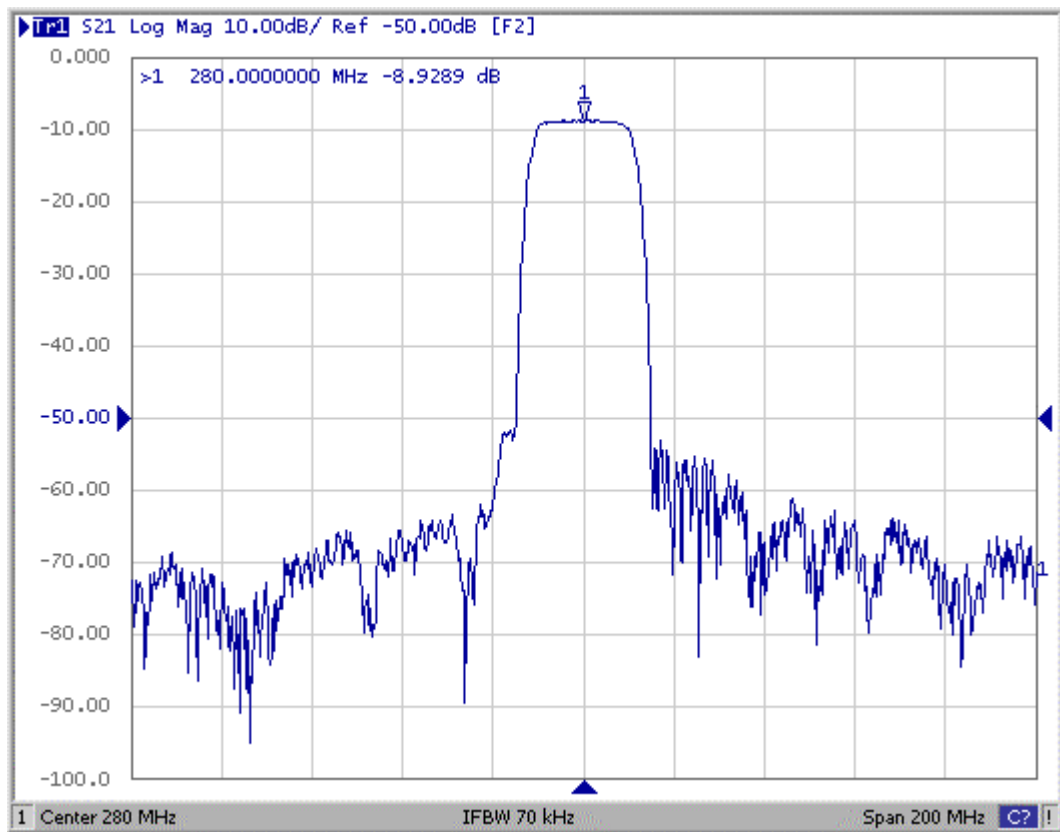
B. Characteristics :

1. Ambient Temperature: 25°C

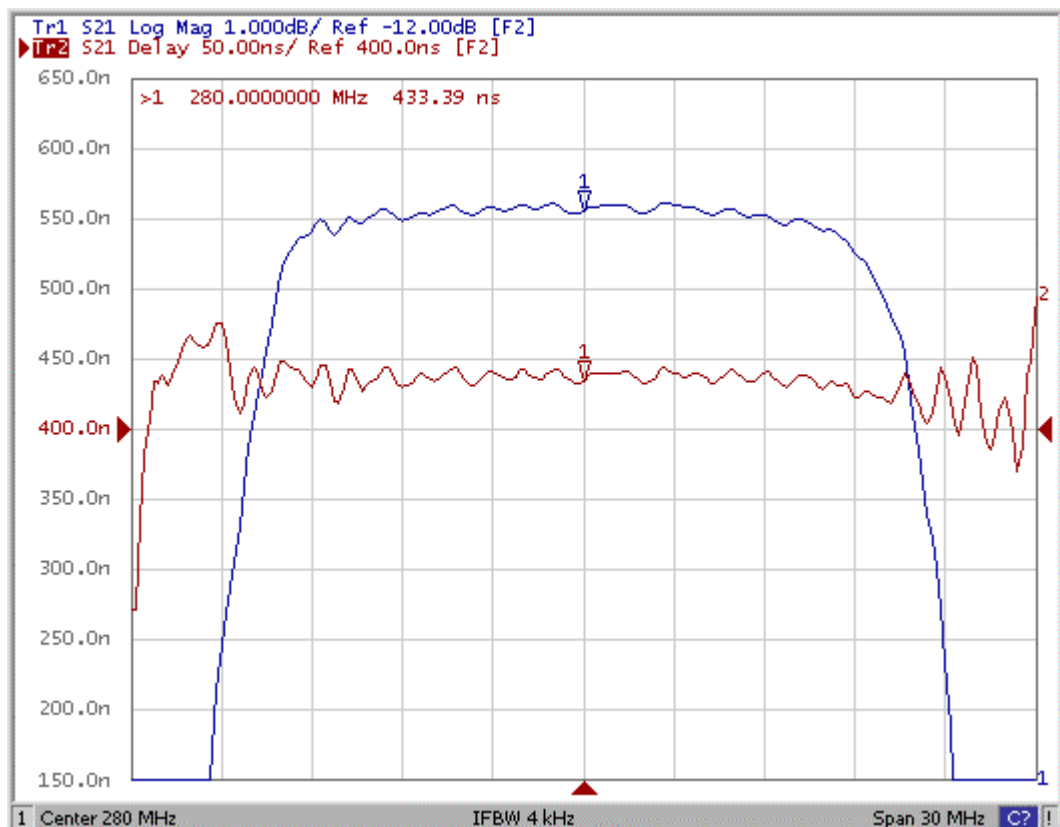
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	280	-	-
Minimum Insertion loss I.L. dB	-	8.8	11.0	-
1.0 dB Bandwidth MHz	15.0	19.8	-	-
40 dB Bandwidth	-	29.5	31.0	-
Amplitude Ripple ($F_c \pm 7.5\text{MHz}$) dB	-	0.4	1.0	-
Amplitude Ripple ($F_c \pm 7.5\text{MHz} \sim F_c \pm 8.5\text{MHz}$) dB	-	0.7	2.0	-
Group-delay Ripple ($F_c \pm 7.5\text{MHz}$) nsec	-	24	50	-
Attenuation (Reference level from Minimum insertion loss)				
(1) $F_c \pm 15\text{MHz} \sim F_c \pm 17\text{MHz}$ dB	10	40	-	-
(2) $F_c \pm 17\text{MHz} \sim F_c \pm 100\text{MHz}$ dB	40	45	-	-

C. FREQUENCY CHARACTERISTICS:

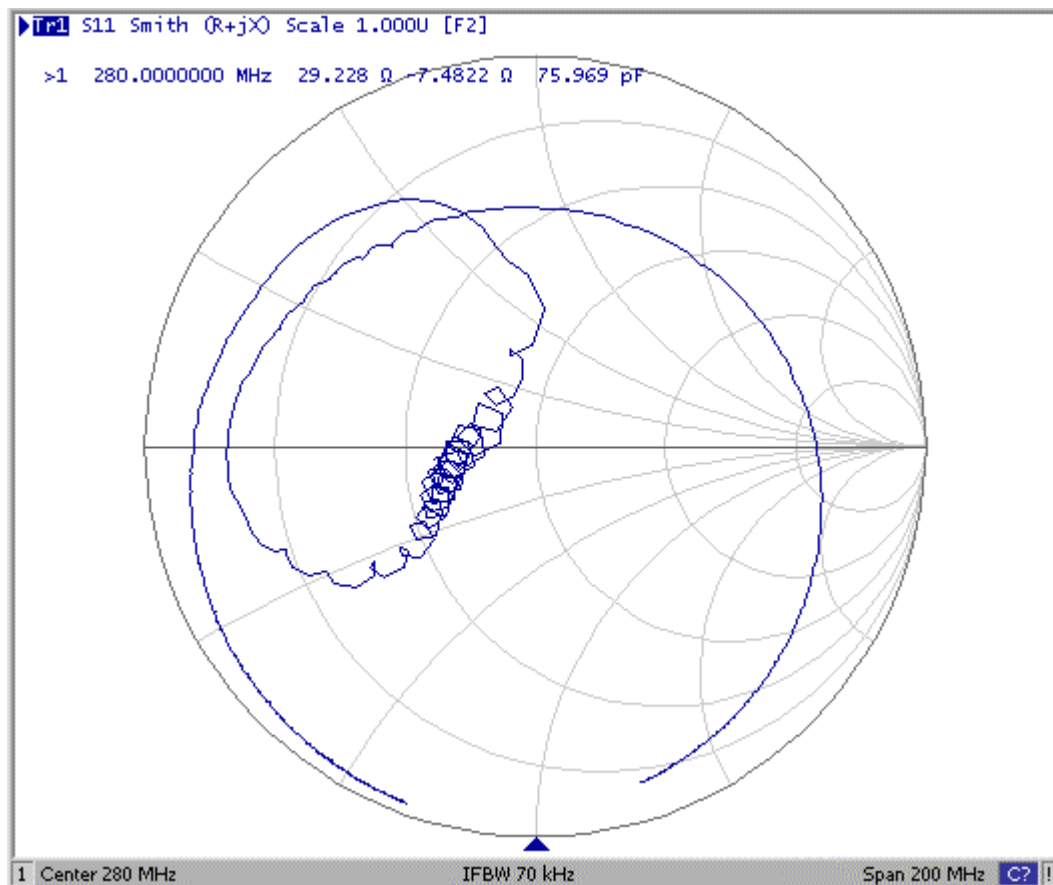
(1) S21 Response:(span 200MHz)



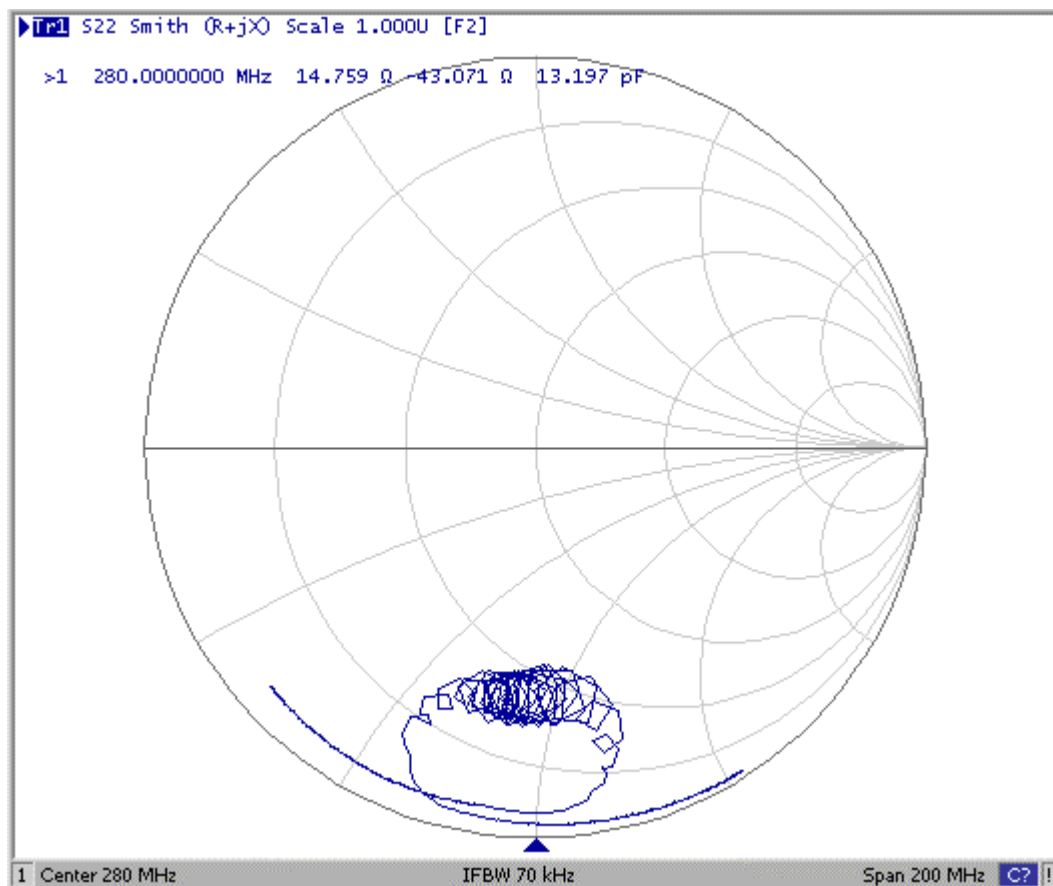
(2) Passband of Response: (span: 30MHz)



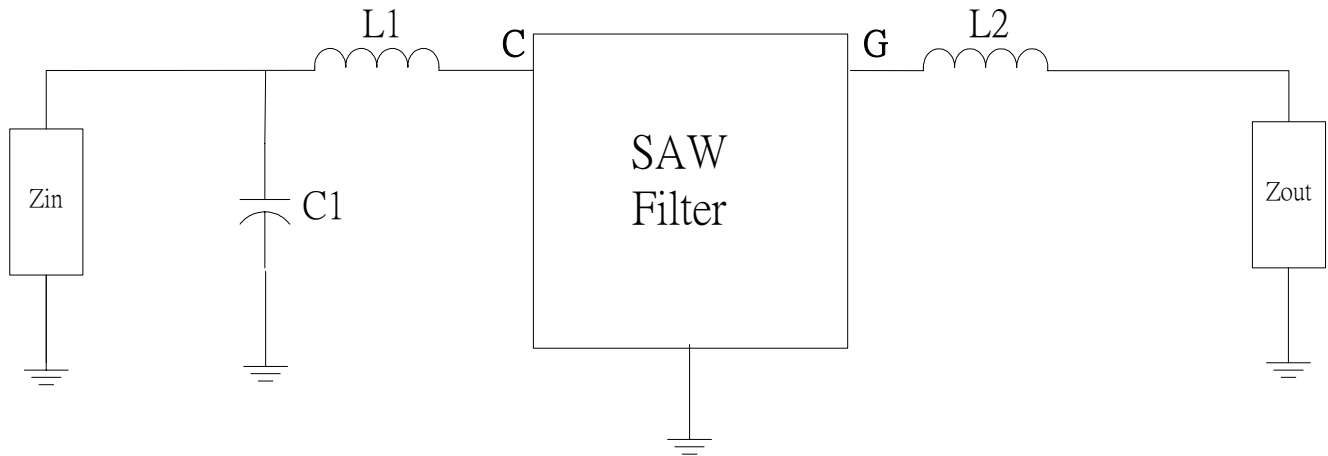
(3) S11 Smith Chart: (span 200MHz)



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



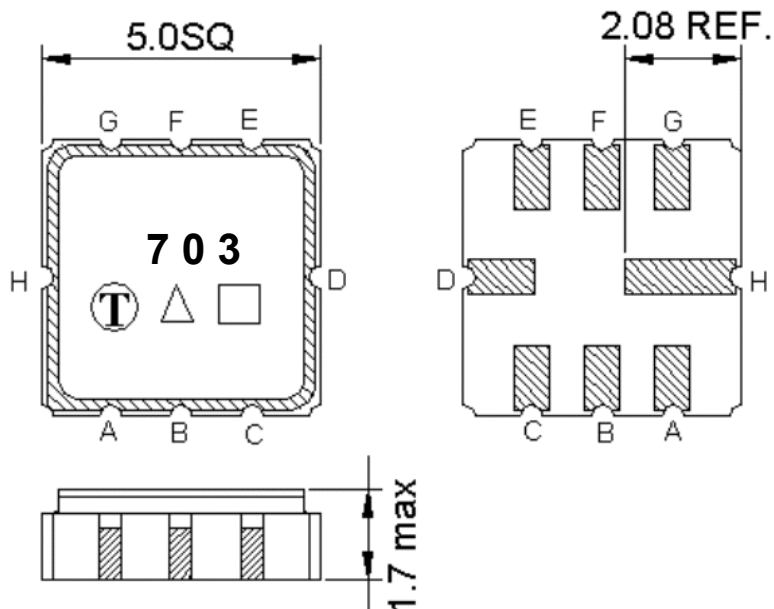
D. TEST CIRCUIT:



Z_{in} and Z_{out} are 50Ω

$L1=47nH$, $C1=10p$, $L2=8.2nH$

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)

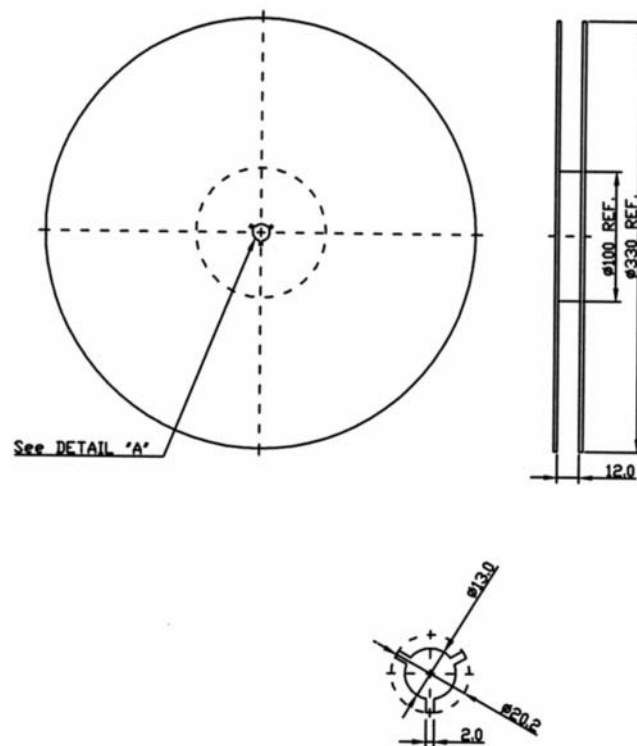
Unit : mm

△ : Product / Year Code

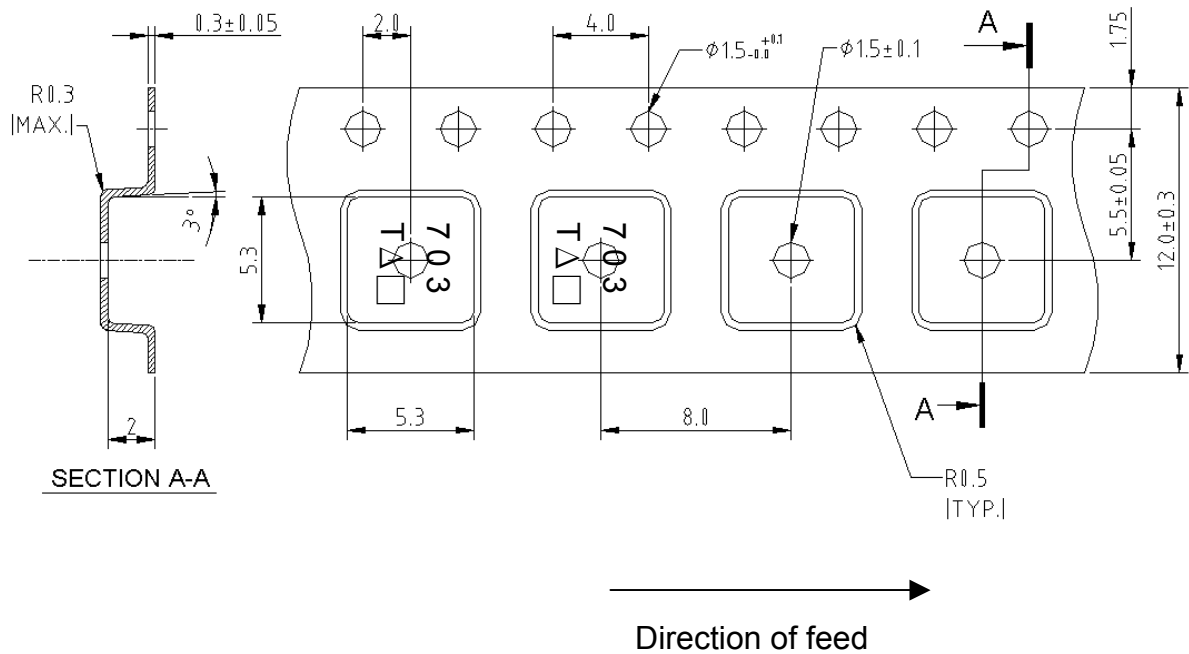
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



G. Recommended Reflow Profile:

