



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

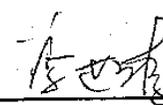
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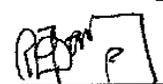
Product Name: SAW IF Filter 70MHz

TST Parts No.: TB0693A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 2009/02/05



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SAW Filter 70MHz 0.8MHz BW (SMD 13.3×6.5 mm)

MODEL NO.: TB0693A

Rev No.1

A. MAXIMUM RATING:

1. Operating temperature range: -40°C to 80°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V

RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

ELECTRICAL PARAMETERS			VALUE		
Parameter	Sign	Units	MIN	TYP	MAX
Center Frequency	F ₀	MHz	69.9	70	70.1
Insertion Loss	IL	dB	-	9.2	11.5
-1 dB Pass Bandwidth	BW1	MHz	0.8	0.92	-
-3 dB Pass Bandwidth	BW3	MHz	1.1	1.2	-
-40 dB Pass Bandwidth	BW40	MHz	-	2.2	2.3
Amplitude Ripple Fc±/ 0.30MHZ	AR	dB	-	0.7	1.0
Group Delay Time Deviation in Pass Band Fc±/ 0.30MHZ	GDV	nsec	-	350	400
Relative Attenuation					
DC ~ 65MHz	dB	UR	45	55	-
75MHz ~ 200MHz	dB	UR	45	55	-
Source and Load Impedances	RS/RL	Ohm	50		

C. Frequency Characteristics :

(1) Wide band Response:(span 10MHz)

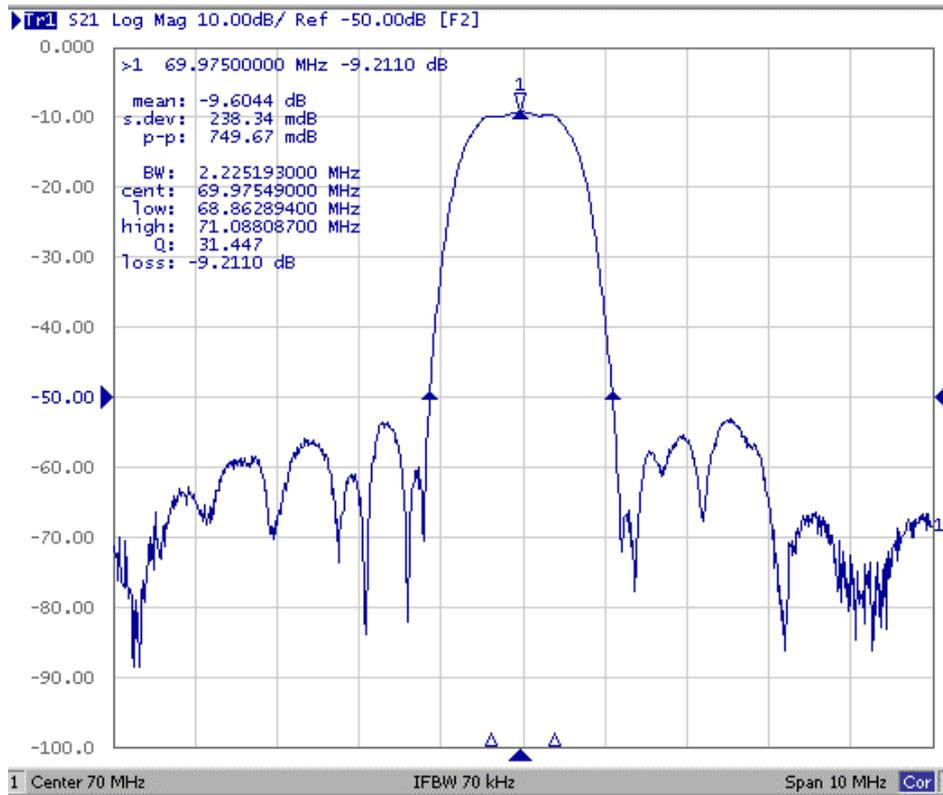


Fig1. Horizontal: 1MHz/Div Vertical: 10dB/Div

(2) Pass band Response:

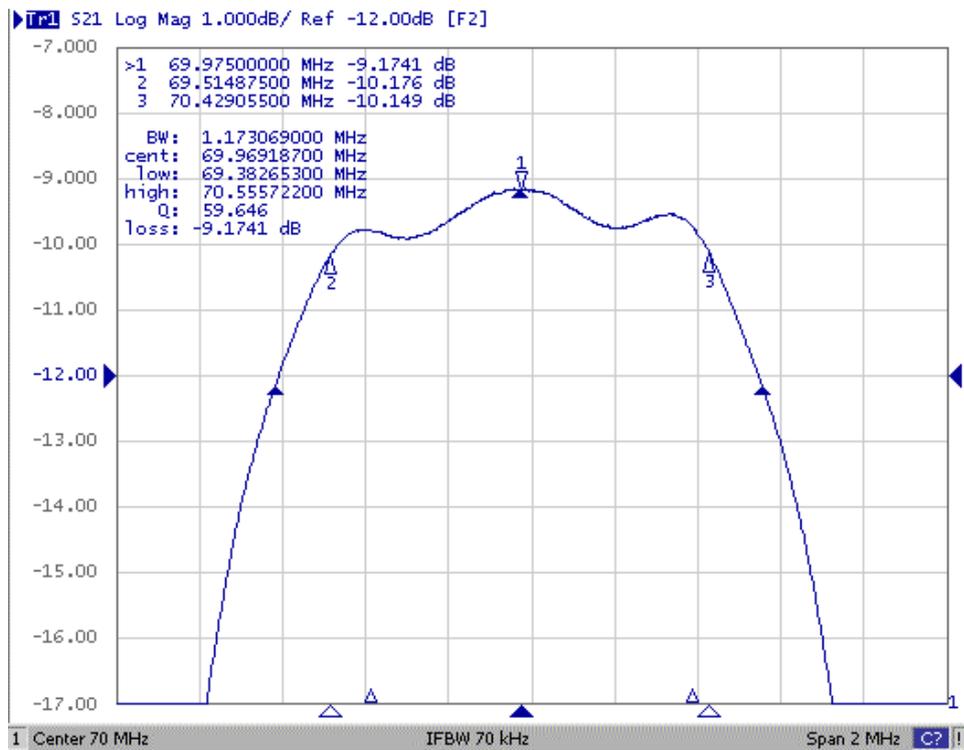


Fig2. Horizontal: 0.2MHz/Div Vertical: 1dB/Div

(3) Group Time Delay response:

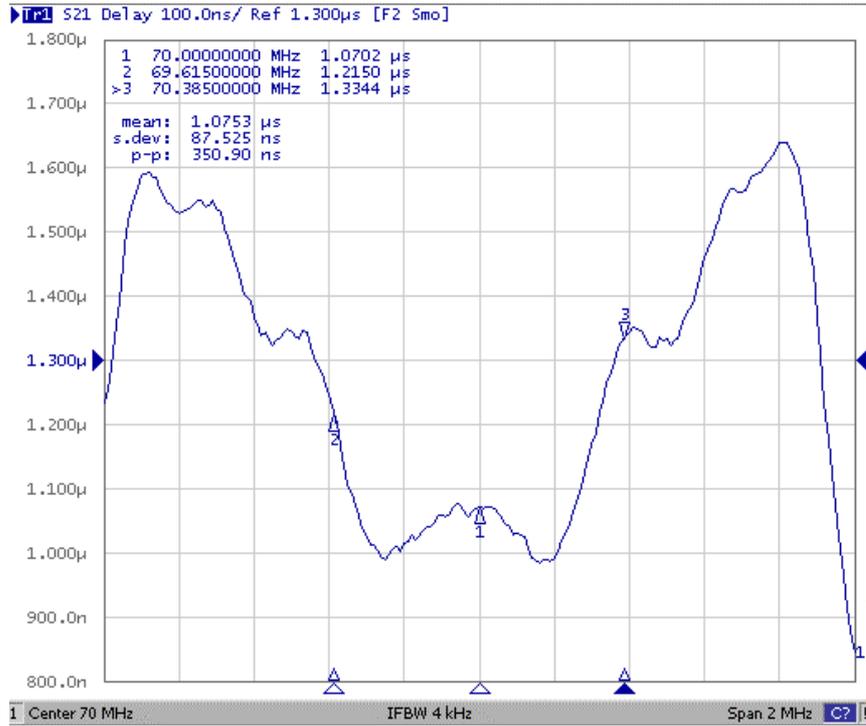
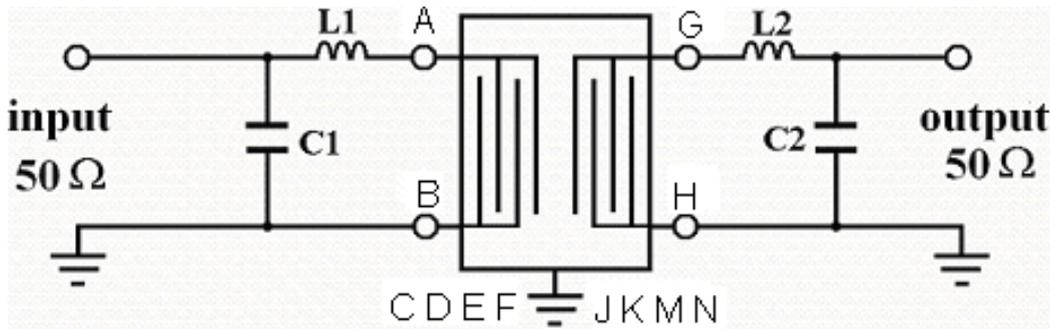


Fig3. Horizontal: 0.2MHz/Div Vertical: 100ns/Div

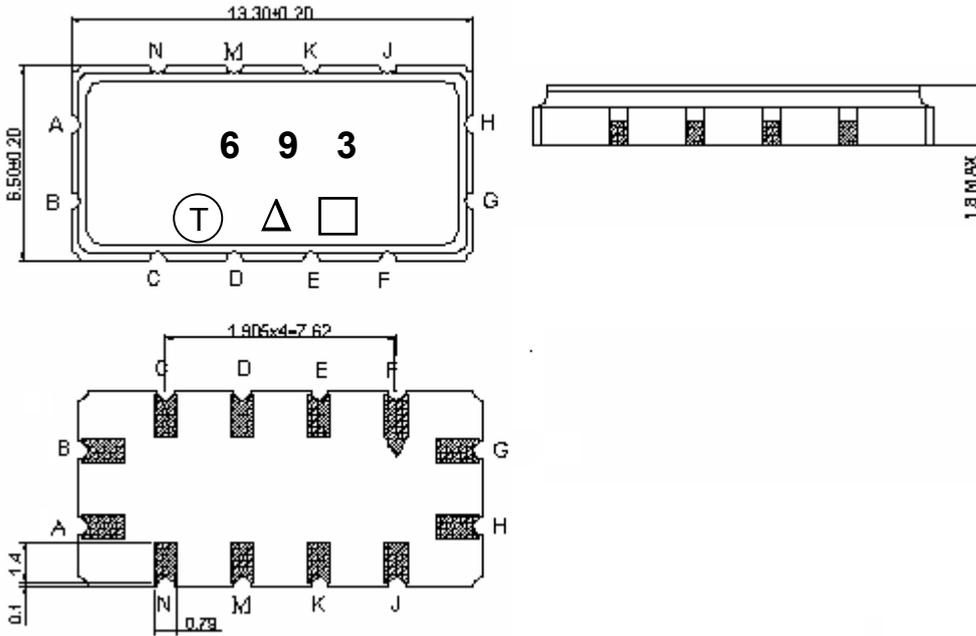
D. Matching Circuit:



L1 = 330~480 nH, C1 = 82 pF L2 = 330~480 nH, C2 = 82 pF

Z_{in}=50ohm Z_{out}=50ohm

E. Outline Drawing:



Pin A –RF input

Pin B –RF input ground

Pin G –RF output

Pin H –RF output ground

Pin C, D, E, F, J, K, M, N - Ground

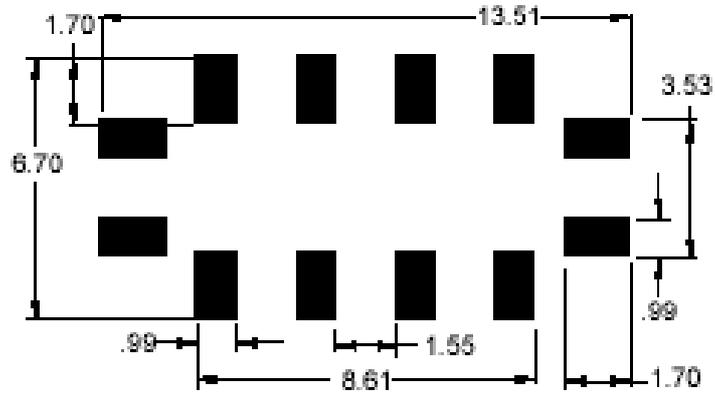
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

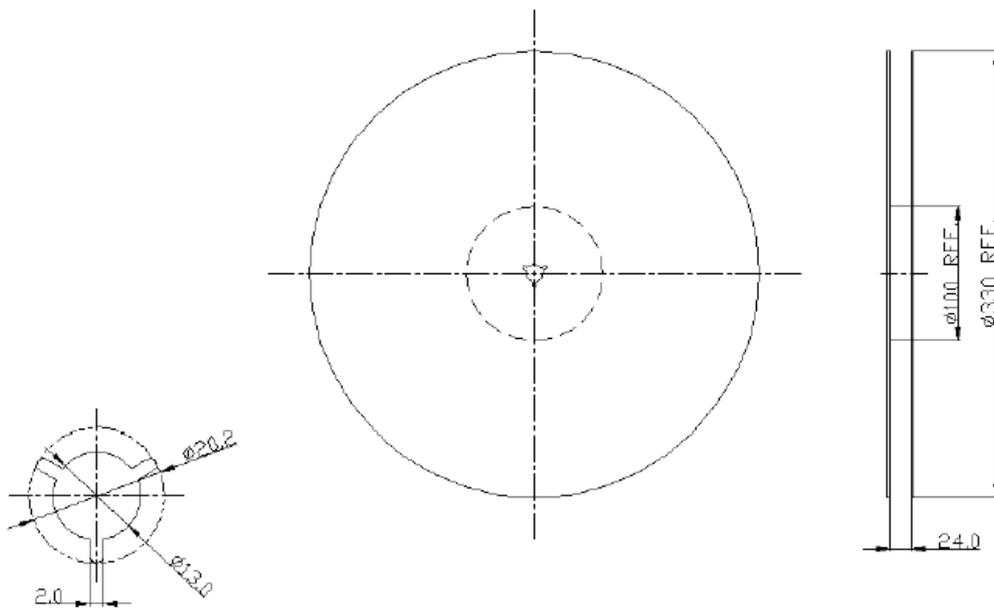
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

F. PCB Footprint:



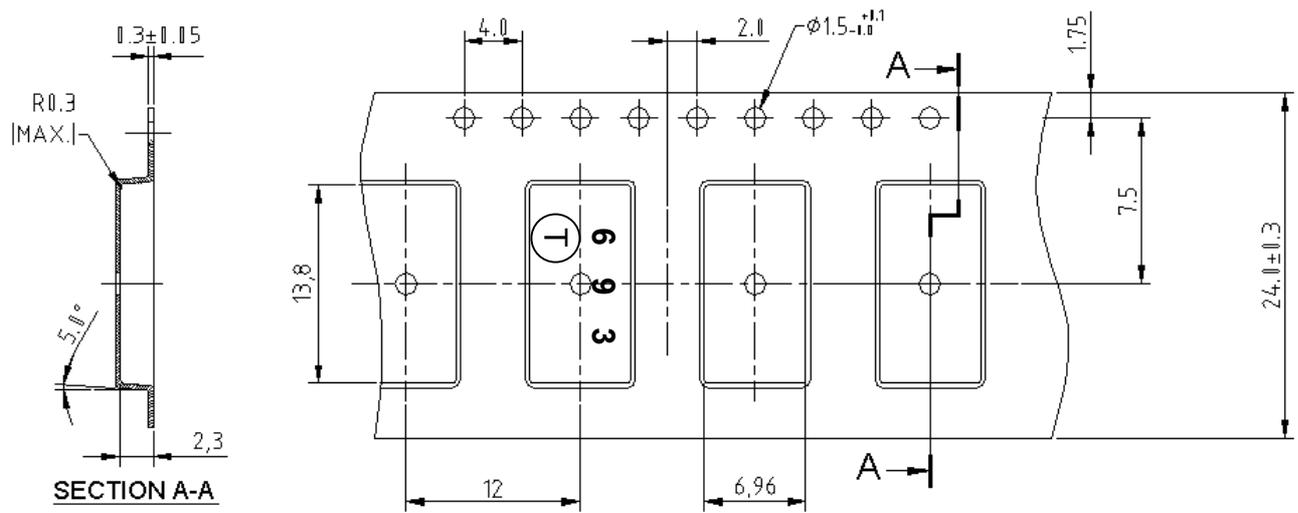
G. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

