Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 79MHz   SMD 13.3×6.5mm

TST Parts No.:TB0753A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Andy Yu_____ _Andy Yu_

Approval by:_____Francis Chen_____

Date:_____2009/4/20_____

SAW Filter 79 MHz(BW=13MHz)   SMD 13.3mmX6.5mm

MODEL NO.: TB0753A   REV.1.0

A. MAXIMUM RATING:

1. Operating Temperature: -20 °C ~ +80 °C

2. Storage Temperature: -40 °C ~ +85 °C

3. Input power: 10dBm

**RoHS Compliant
Lead free
Lead-free soldering**

B. Characteristics :

Ambient Temperature: 25 °C

Characteristics		Value			Note
		Min.	Typ.	Max.	
Center frequency F$_C$	MHz	-	79.0	-	-
Minimum Insertion loss I.L. 72.5MHz ~ 85.5MHz	dB	-	9.8	15.0	-
Passband Ripple 72.5MHz ~ 85.5MHz	dB	-	0.7	1.5	-
Attenuation 10MHz ~ 62MHz 92MHz ~ 200MHz	dB dB	40 40	52 47	- -	-
Substrate Material		YZ-LiNbO3			-
Temp Coefficient ppm/K		-	-94	-	-
Matching: 1.The input of the filter will be matched to 50 ohm 2.The output of the filter will be matched to 50 ohm					

D. FREQUENCY CHARACTERISTICS :
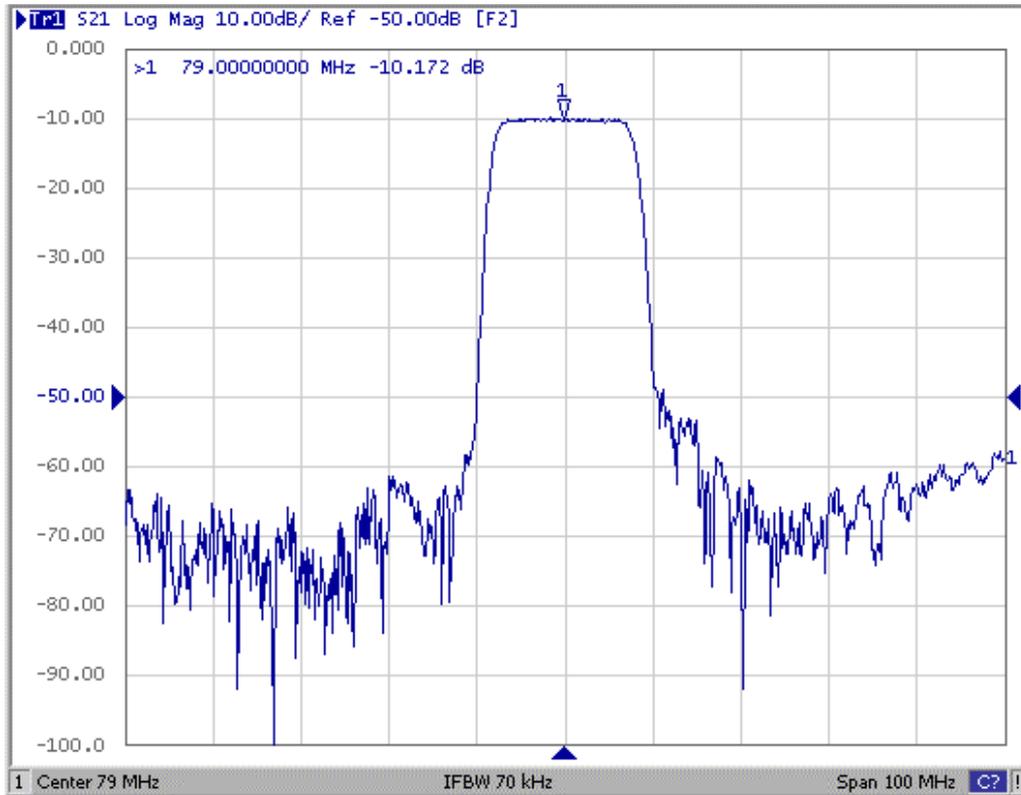
1.S21 Response: (span : 100MHz)

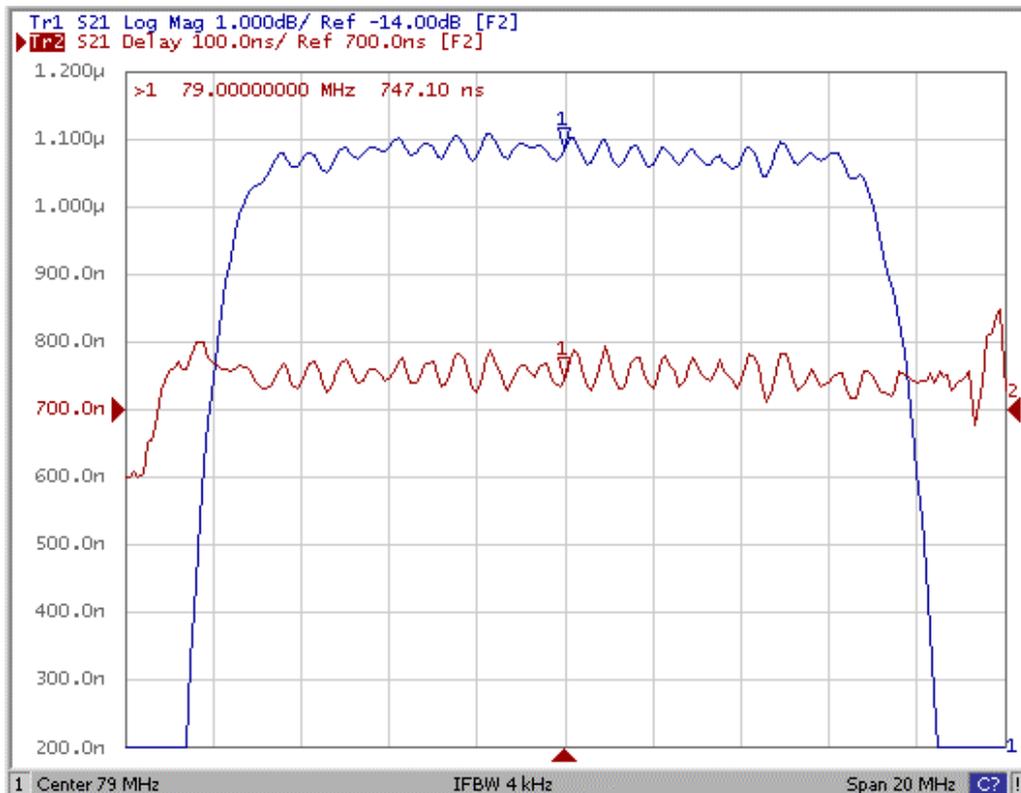Fig1.   Horizontal:10MHz/Div   Vertical: 10dB/Div
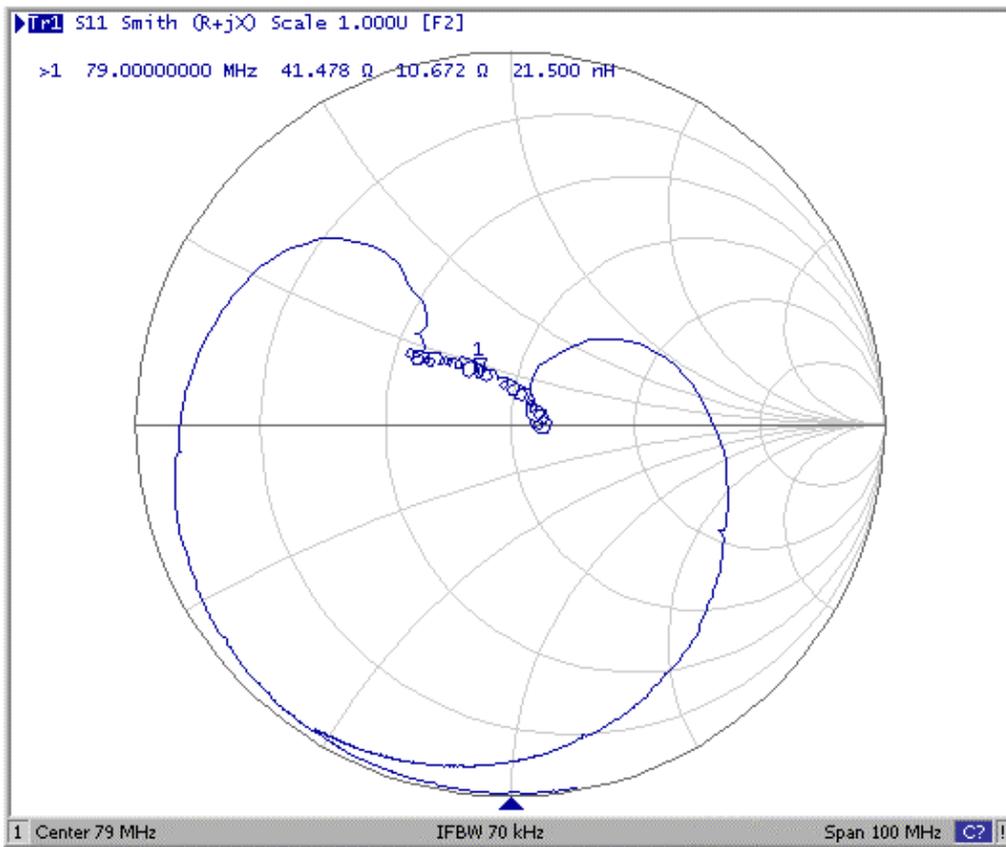

2. Group-Delay Ripple: (span : 20MHz)

Fig2.   Horizontal: 2.0MHz/Div   Vertical: 100nec/Div

3. S11 Smith Chart: (span : 100MHz)

Tr1 S11 Smith (R+jX) Scale 1.000U [F2]

>1 79.00000000 MHz 41.478 Ω 10.672 Ω 21.500 nH

1 Center 79 MHz   IFBW 70 kHz   Span 100 MHz C? !

4. S22 Smith Chart (span : 100MHz)

Tr1 S22 Smith (R+jX) Scale 1.000U [F2]

>1 79.00000000 MHz 19.025 Ω 18.706 Ω 107.70 pF

1 Center 79 MHz   IFBW 70 kHz   Span 100 MHz C? !
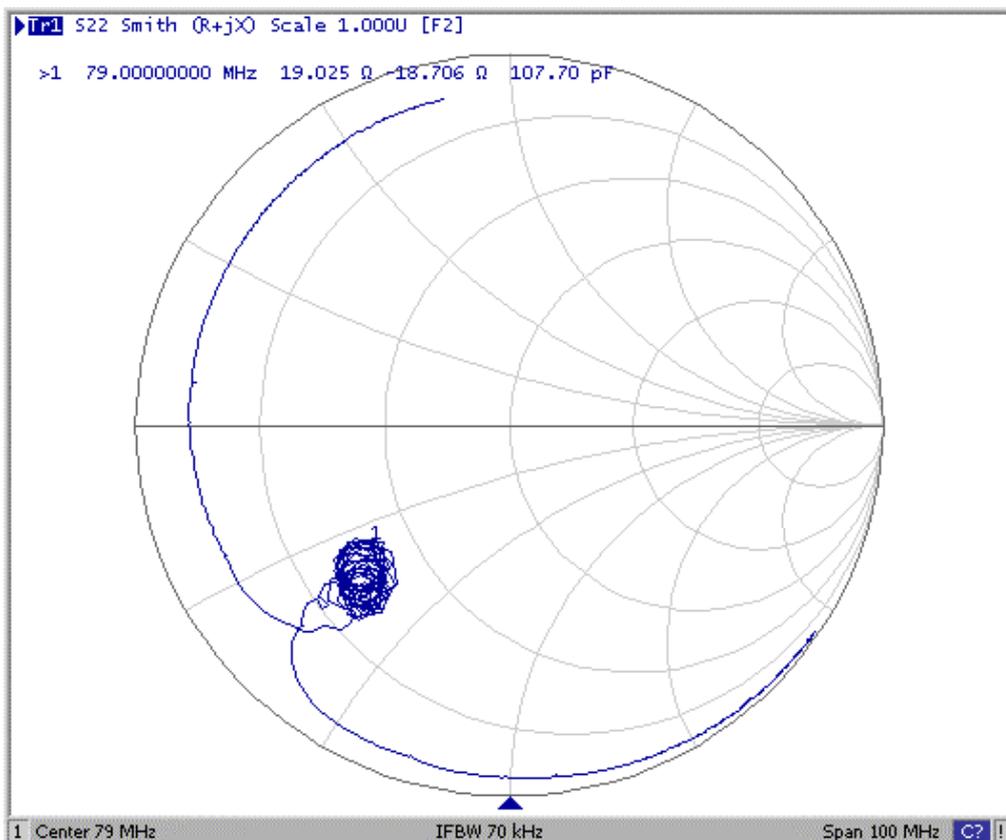
E. MEASUREMENT CIRCUIT

Zin= Zout= 50 ohm
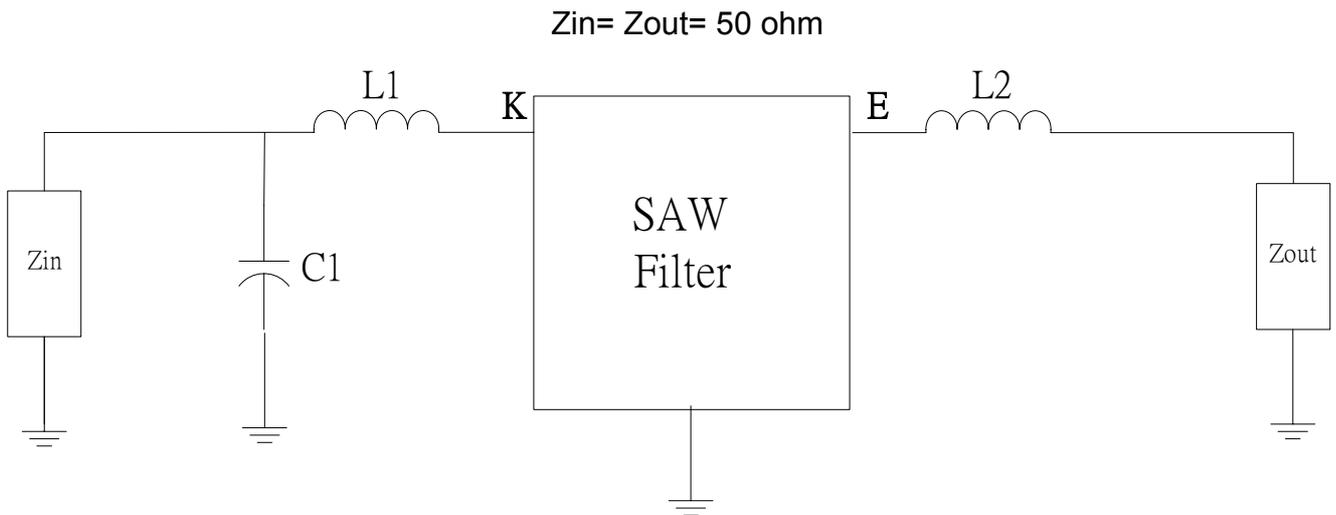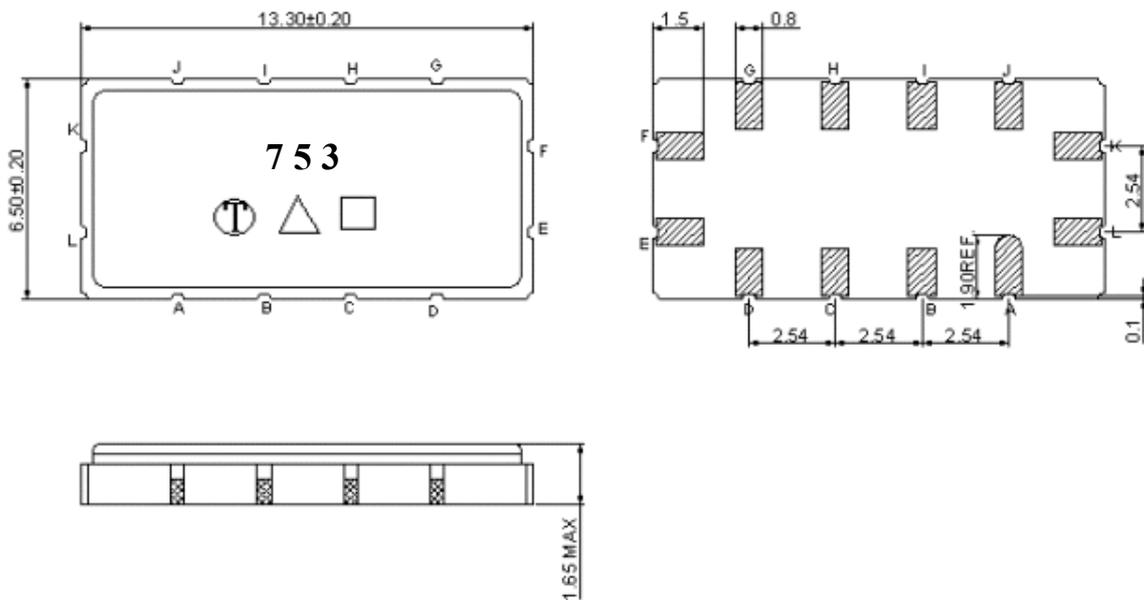

L1=160nH, C1=56pF, L2=82nH.

F.OUTLINE DRAWING:

Pin K: RF input

Pin E: RF output
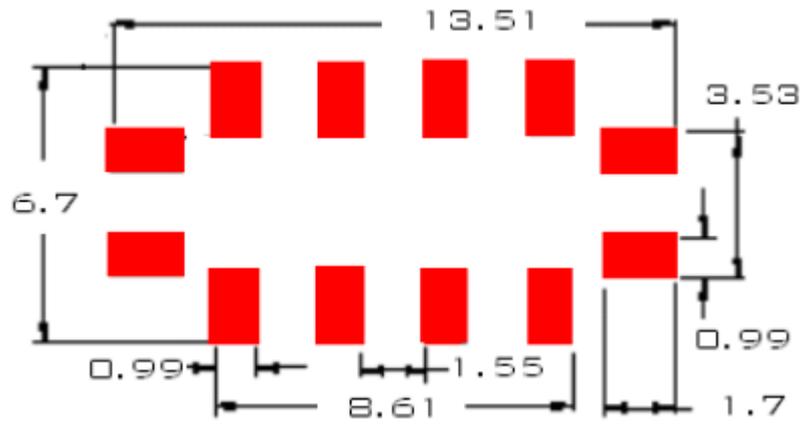
Pin A, B, C, D, G, H, I, L, F J: To be Ground

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

Unit   : mm

△ : Product / Year Code
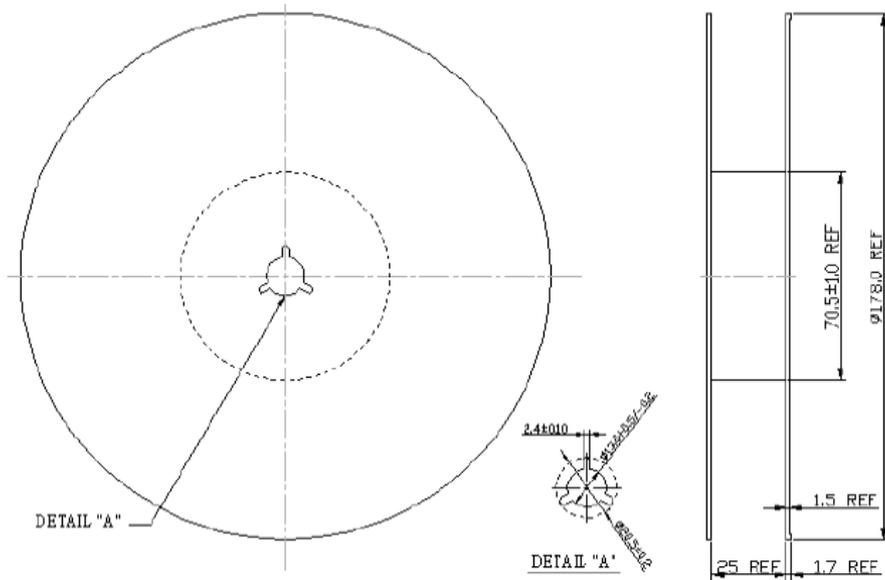
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	B	b

TST DCC
Release document

G. PCB Footprint

Unit: mm

H. PACKING:

1. REEL DIMENSION

Unit: mm

2. TAPE DIMENSION

SECTION A-A

Unit: mm

I. RECOMMENDED REFLOW PROFILE :