



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: IF SAW Filter 140 MHz (SMD 13.3mmX6.5mm)

TST Parts No.: TB0390B

Customer Parts No.: _____

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

Checked by: _____ Andy Yu *Andy*

Approval by: _____ Francis Chen *Francis Chen*

Date: _____ 2011/10/03

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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IF SAW Filter 140 MHz SMD 13.3mmX6.5mm

MODEL NO.: TB0390B

Rev. No. 1.0

A. MAXIMUM RATING:

1. Operating Temperature: -40 °C ~ +85 °C
2. Storage Temperature: -40 °C ~ +85 °C
3. Input Power Level: 10dBm

RoHS Compliant
Lead free
Lead-free soldering

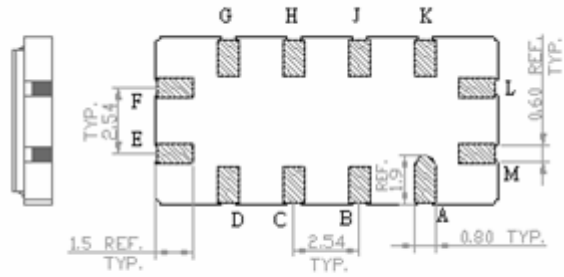
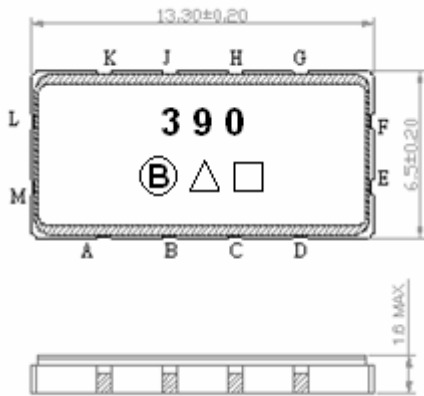
Electrostatic Sensitive Device (ESD)

B. Characteristics :

1. Ambient Temperature: 25 °

Characteristics	Value			Note.
	Min.		Max.	
Center frequency F_c MHz	139.75	140.0	140.25	-
Maximum Insertion loss I.L. dB	-	10.7	14.0	-
1dB Bandwidth MHz	5.50	5.87	-	-
3dB Bandwidth MHz	-	6.73	-	-
40dB Bandwidth MHz	-	9.98	11.00	-
Passband Ripple ($F_c \pm 2.3\text{MHz}$) MHz	-	0.73	1.20	-
Group Delay Ripple ($F_c \pm 2.3\text{MHz}$) nS	-	70	100	-
Group Delay at F_c uS	-	0.93	1.00	-
Phase linearity at ($F_c \pm 2.3\text{MHz}$) P-P Deg	-	8.0	15.0	-
Temp Coefficient ppm/°C	-	-25	-	-
Attenuation:(Reference level from minimum insertion loss)				
1) DC ~ 123 MHz dB	40	45	-	-
2) 157MHz ~ 400 MHz dB	42	48	-	-
2) 400MHz ~ 500 MHz dB	25	46	-	-

C.OUTLINE DRAWING:



Pin configuration

#L RF Input

#M RF Input ground

#E RF Output

#F RF Output ground

#A,B,C,D,G,H,J,K 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	<u>B</u>	<u>b</u>

D. Frequency Characteristics :

1. S21 Response

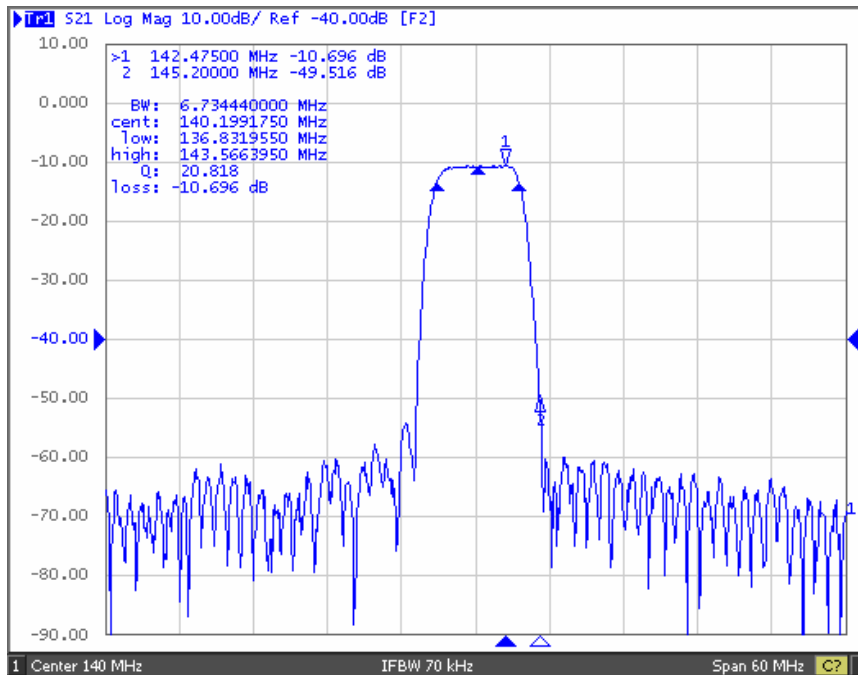


Fig1. Horizontal: 6MHz/Div Vertical: 10dB/Div

2. Pass band Ripple and Group Delay Ripple

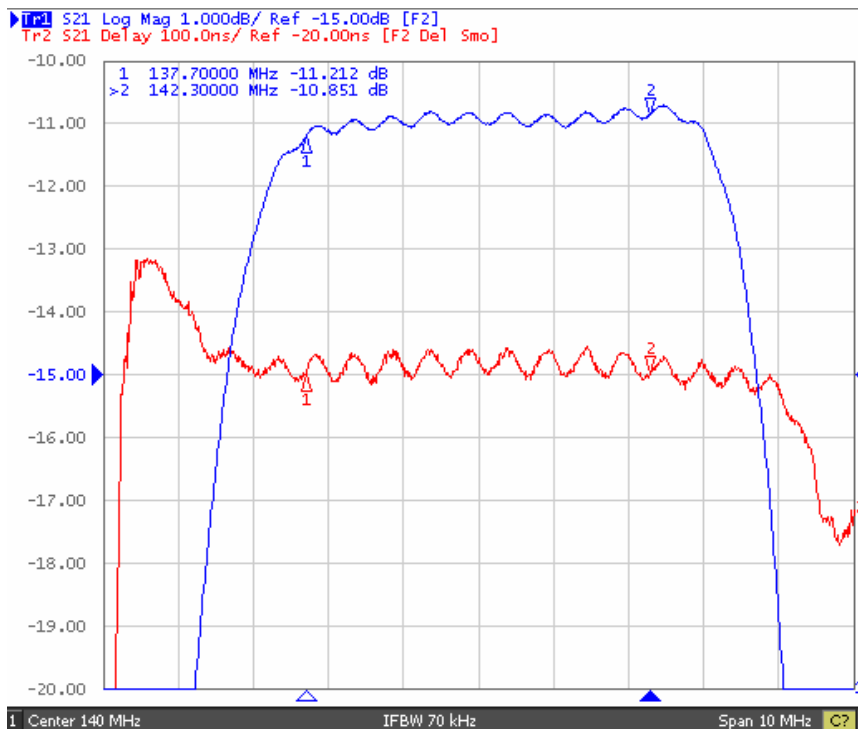
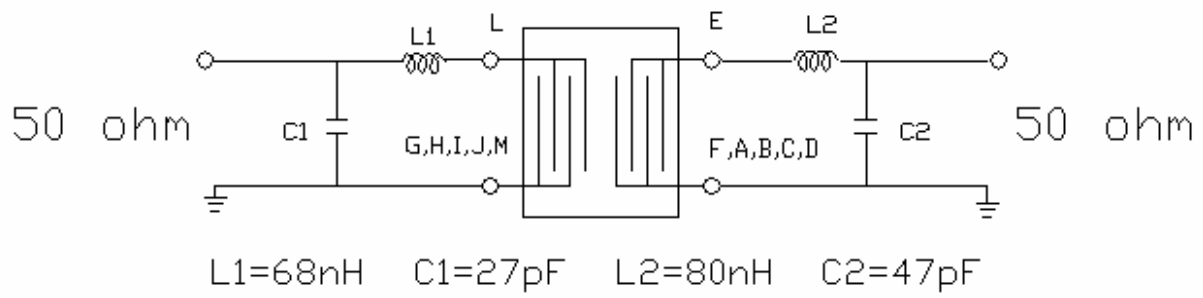
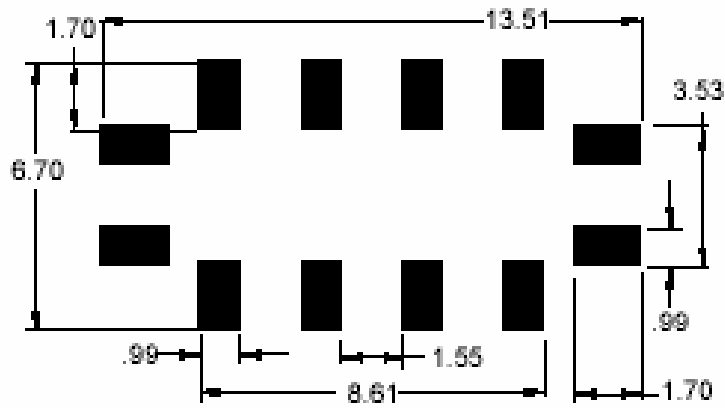


Fig2. Horizontal: 1MHz/Div; Vertical: 1dB/Div,
Vertical: 100nS

E. TEST FIXTURE :

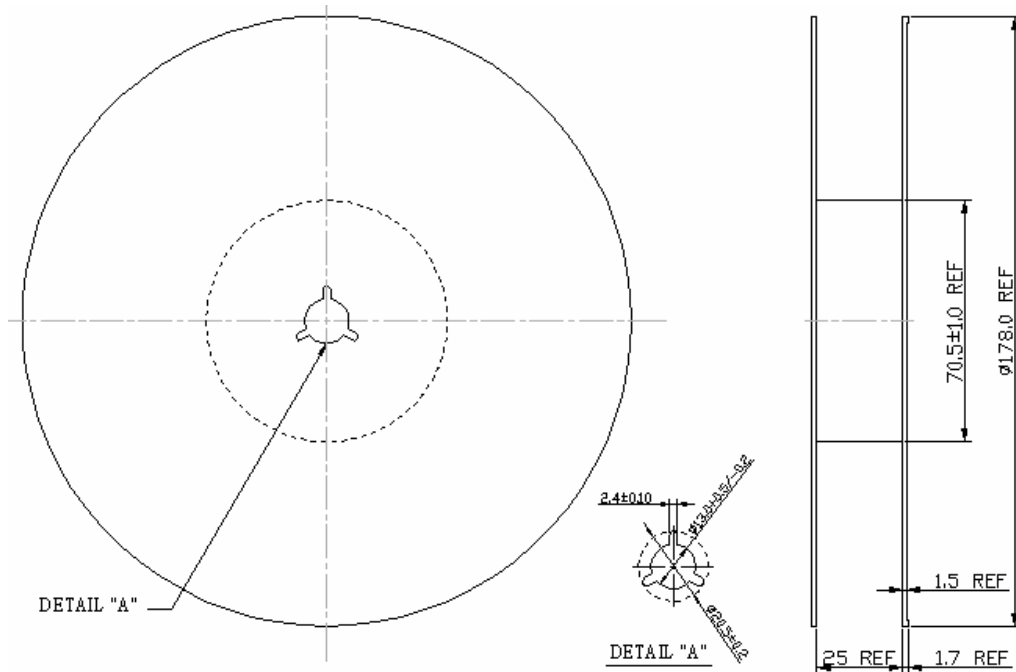


F. PCB FOOTPRINT

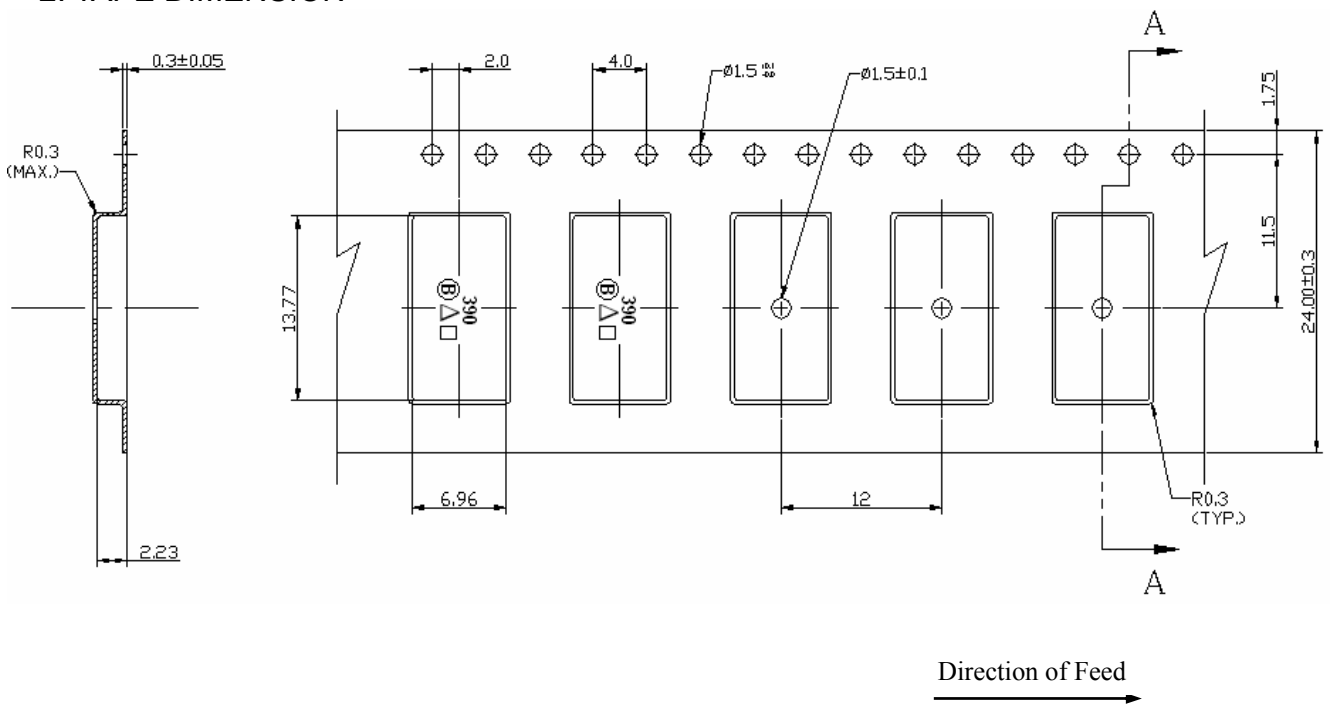


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

