TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Approval Sheet For Product Specification

Issued Date:

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

TST Parts No.:TB0375A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Andy Lee_____

Approval by:_____Francis Chen_____

Date:_____2006/6/28_____

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IF SAW Filter 140 MHz SMD 13.3mmX6.5mm

MODEL NO.: TB0375A REV. NO.1

RoHS Compliant
Lead free
Lead-free soldering

A. MAXIMUM RATING:

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

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

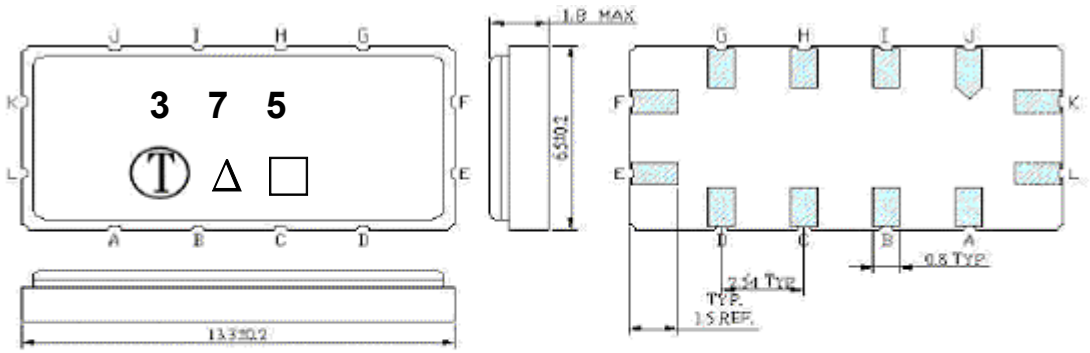
B. Characteristics :

1. Ambient Temperature: 25 °

Characteristics		Value			Note.
		Min.		Max.	
Center frequency F_C	MHz	139.6	140.0	140.4	-
Maximum Insertion loss I.L.	dB	-	17	20	-
1dB Bandwidth	MHz	10.8	11.5		
3dB Bandwidth	MHz	-	11.6	12.6	
40dB Bandwidth	MHz	-	15.5	16.0	
Passband Ripple (134.8~145.2MHz)	dB	-	0.84	1	-
Group Delay Ripple (134.8 ~145.2MHz)	nS	-	100	200	-
Temp Coefficient	ppm/° C		-23		
Attenuation:(Reference level from minimum insertion loss)					
1) 100 ~ 123 MHz		45	48	-	-
2) 157MHz ~ 250 MHz	dB	40	50	-	-

TST DCC
Release document

C.OUTLINE DRAWING:



Pin configuration

#K RF Input

#L RF Input ground

#E RF Output

#F RF Output ground

#A,B,C,D,G,H,I,J To be ground

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

△ : Product / Year Code

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

D. Frequency Characteristics :

1. S21 Response

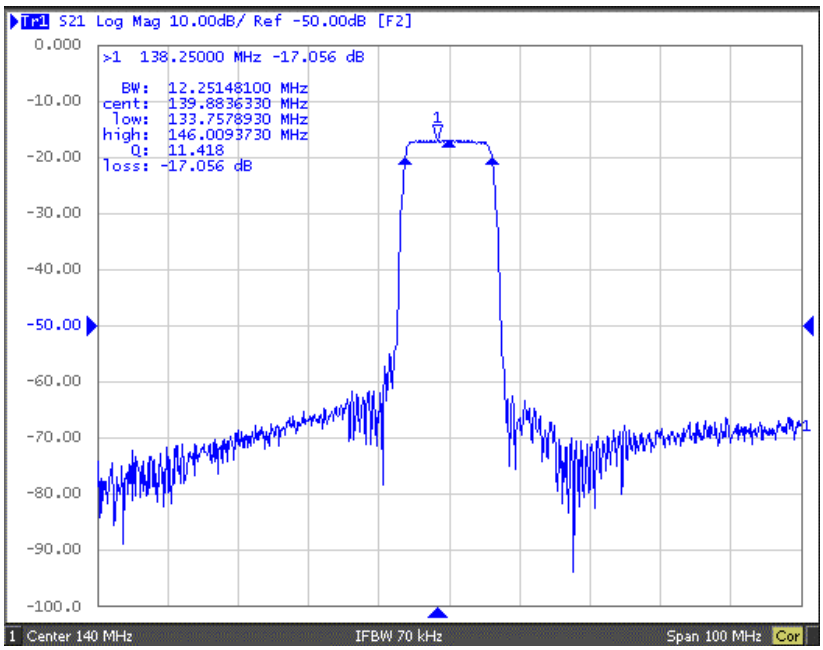


Fig. 1 S21 Response Horizontal: 10MHz; Vertical: 10dB/Div

2. Pass band Ripple and Group Delay Ripple

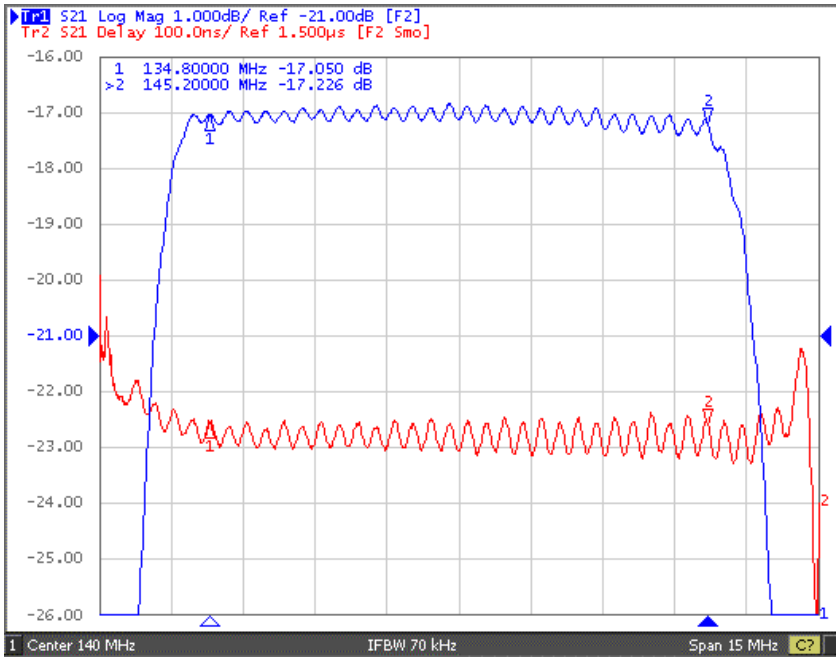
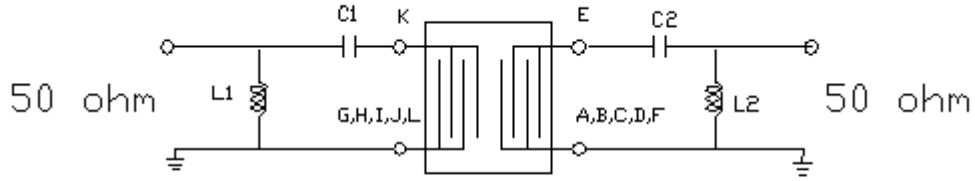


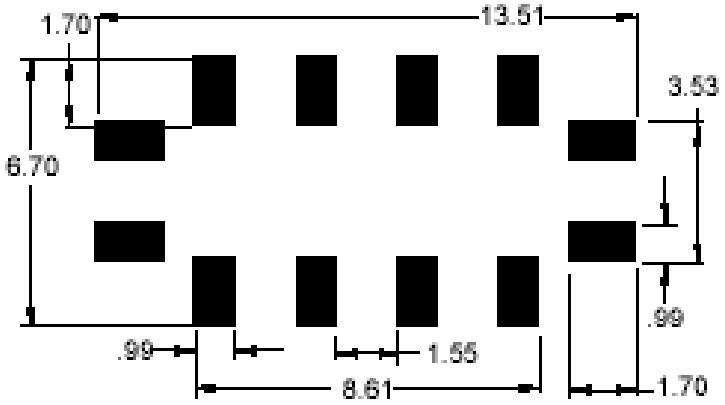
Fig. 2 Inband ripple and Group Delay Horizontal: 1.5MHz/Div;
Vertical: 1dB/Div, 100nS/Div

E. TEST FIXTURE :



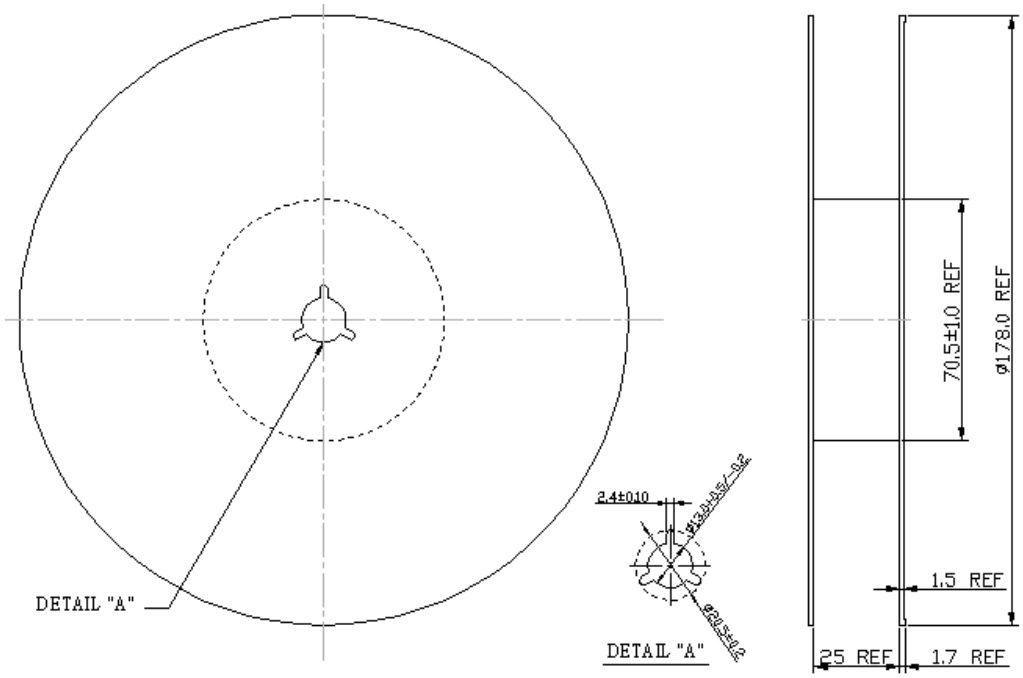
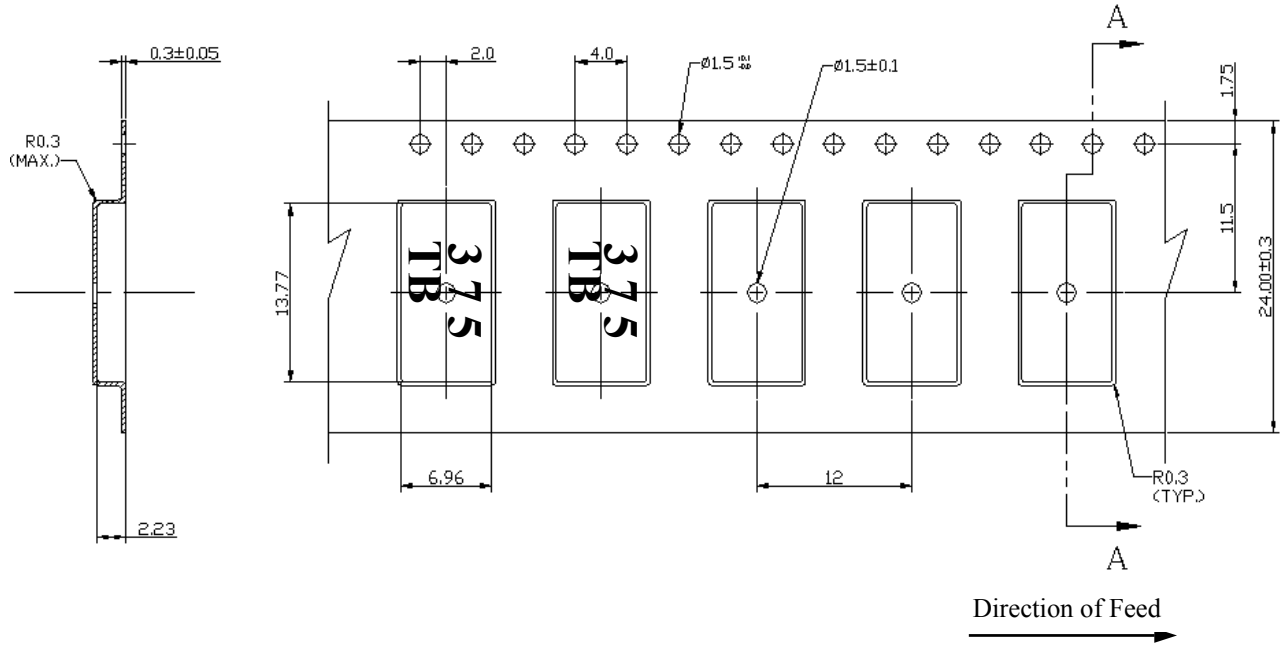
C1=120pF L1=15nH C2=220pF L2=15nH

F. PCB FOOTPRINT



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION