



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

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

TST Parts No.:TB0438A

Customer Parts No.:_____

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

Checked by: _____ Andy Lee

Approval by: _____ Francis Chen

Date: _____ 2007/01/05



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IF SAW Filter 140 MHz SMD 13.3mmX6.5mm

MODEL NO.: TB0438A

Rev. No. 1

A. MAXIMUM RATING:

1. Operating Temperature: -5 °C ~ +85 °C
2. Storage Temperature: -55 °C ~ +80 °C
3. Input Power Level: 10dBm

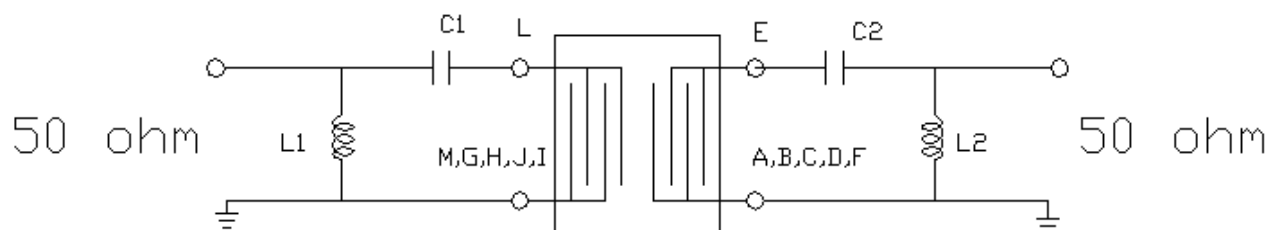
RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

1. Ambient Temperature: 25 °

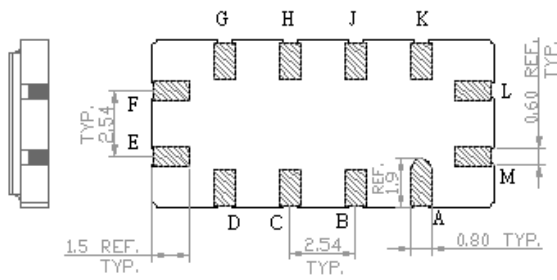
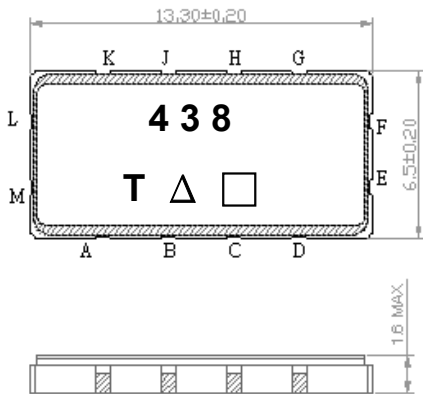
Characteristics	Value			Note.
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	140.0	-	-
Maximum Insertion loss I.L. dB	-	8.5	10.5	-
1dB Bandwidth MHz	9.6	12.4	-	-
3dB Bandwidth MHz	12.0	14.7	-	-
40dB Bandwidth MHz	-	25.5	40.0	-
Passband Ripple ($F_c \pm 4.8$ MHz) MHz	-	0.7	1.0	-
Group Delay Ripple ($F_c \pm 4.8$ MHz) nS	-	75	160	-
Temp Coefficient ppm/°C	-	-94	-	-

C. TEST FIXTURE :



$$L1=47\text{nH} \quad C1=56\text{pF} \quad L2=47\text{nH} \quad C2=120\text{pF}$$

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

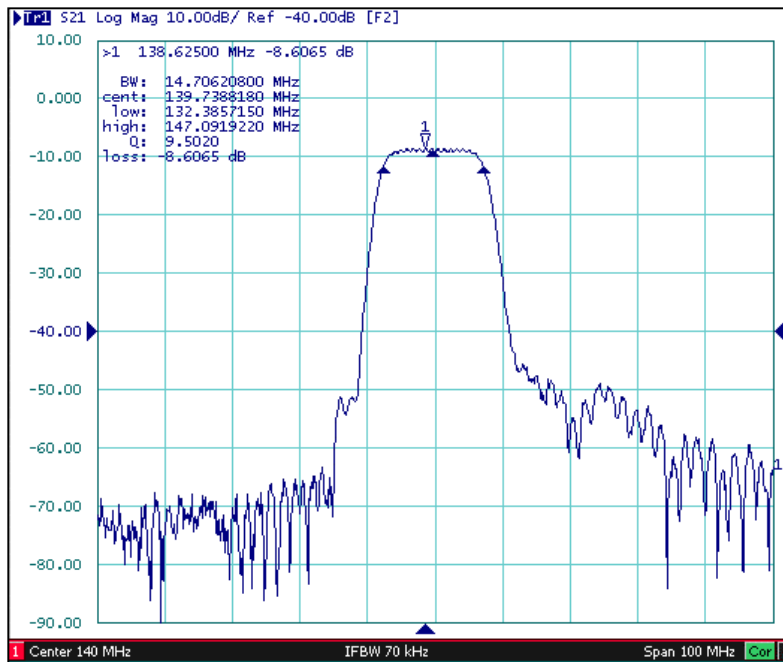


Fig1. Horizontal: 100MHz/Div Vertical: 10dB/Div

2. Pass band Ripple and Group Delay Ripple

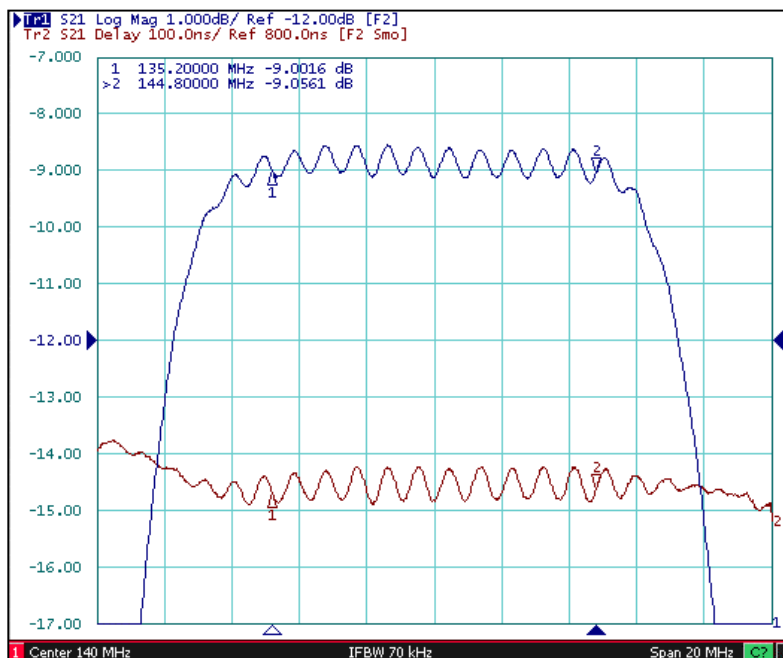
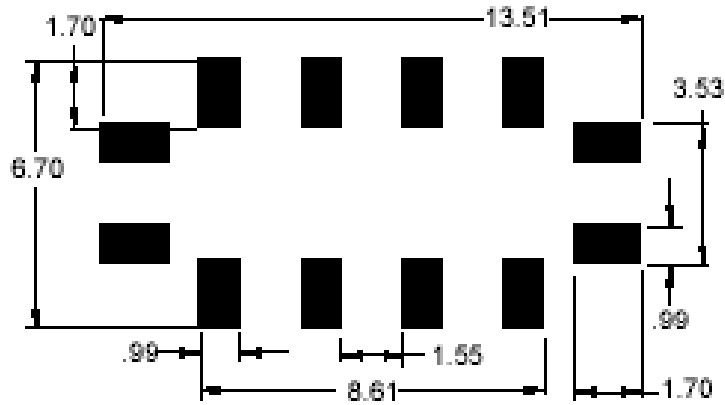


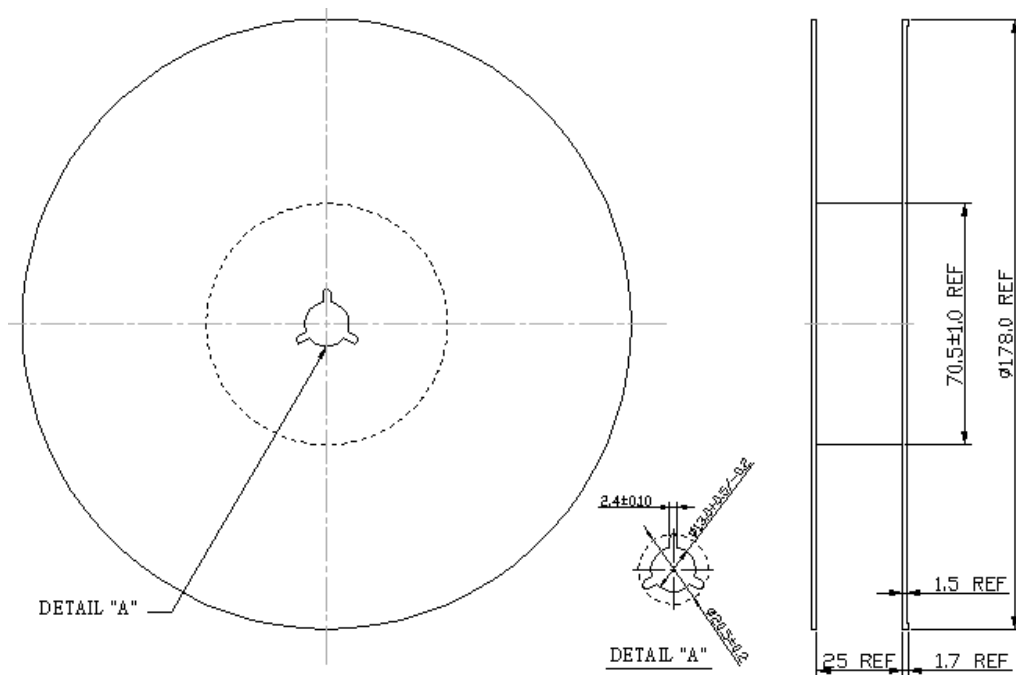
Fig2. Horizontal: 2MHz/Div; Vertical: 1dB/Div,
Vertical: 100nS/Div,

F. PCB FOOTPRINT



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

