



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet


Product Name: SAW IF Filter 830 MHz (package 13.3mm x 6.5 mm)

TST Parts No.: TB0880A

Customer Parts No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 11 / 24 / 2010

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 830MHz SMD 13.3X6.5mm

MODEL NO.: TB0880A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -40°C to 85°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 :

1. Ambient Temperature: 25 °C

Characteristics		Value		
		Min.	Typ.	Max.
Center frequency	MHz	-	830	-
Maximum Insertion loss I.L.	dB	-	24	25.8
1dB Band Width	MHz	-	10.5	-
3dB Band Width	MHz	-	11.3	-
40dB Band Width	MHz	-	14.1	-
Passband Ripple at $F_C \pm 4.8$ MHz	dB	-	1.0	1.2
Group Delay in $F_C \pm 4.8$ MHz	nsec	-	50	110
Absolute group Delay	usec	-	1.0	-
Attenuation (Reference level from minimum Insertion loss)				
$F_C \pm 7.5$ MHz	dB	36	42	-
Single Input Impedance	Ohm	-	50	-
Single Output Impedance	Ohm	-	50	-
Temperature Coefficient	ppm/°C ²	-	-0.036	-

C. Frequency Responses:

1. Wide band response

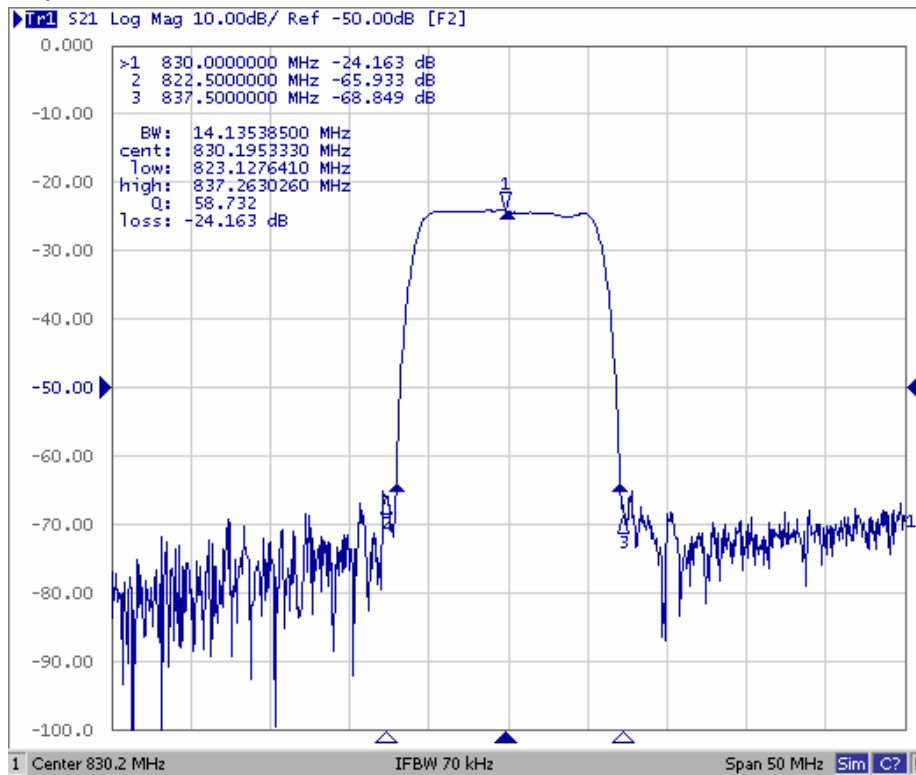


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

2. Pass band & Group Delay response

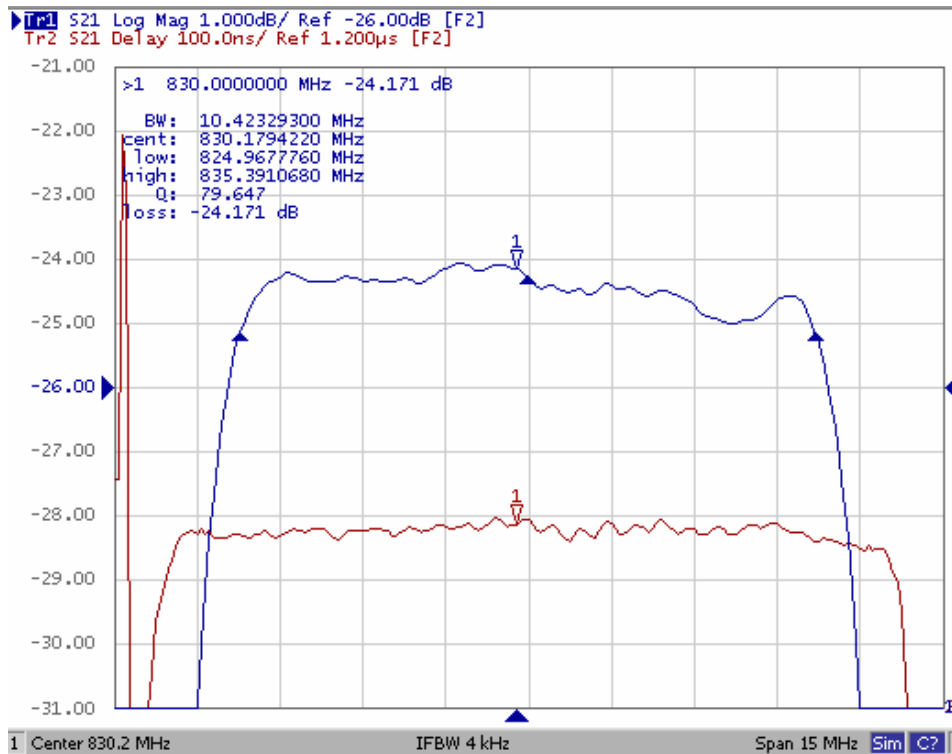
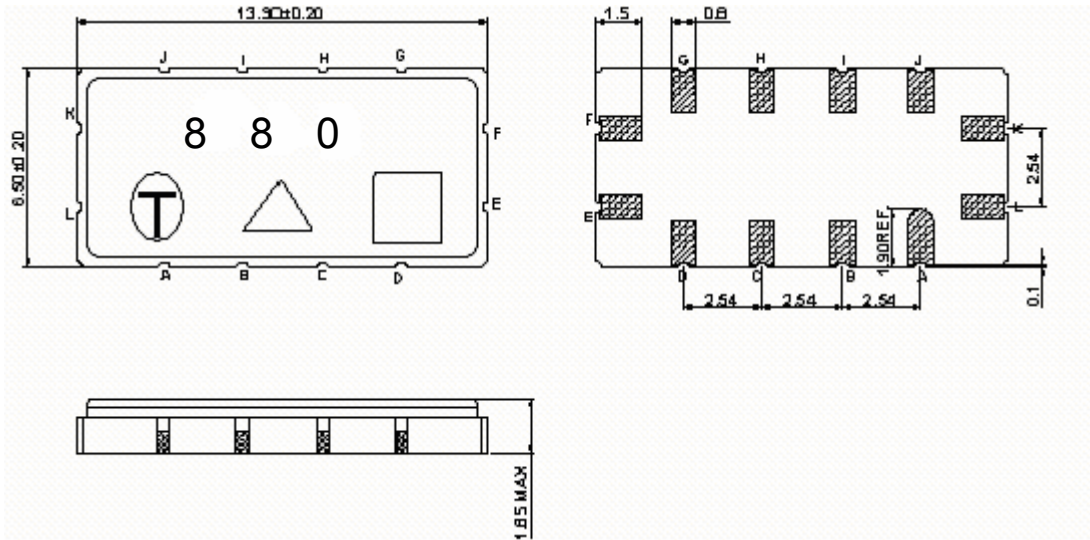


Fig2. Horizontal: 1.5MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

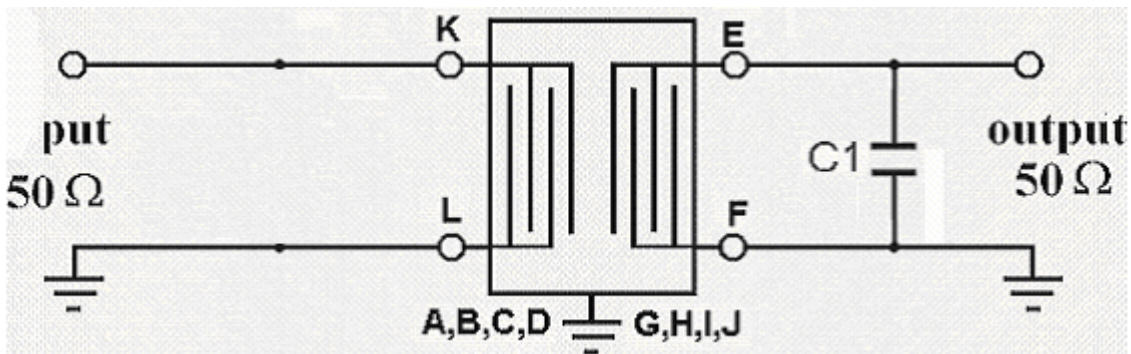
D. Outline Drawing:



- #K : Input
- #L : Input Ground
- #E : Output
- #F : Output Ground
- #A,B,C,D,G,H,I,J : Ground
- : Week Code (Follow the table from planner each year)
- Unit: mm
- △ : Product / Year Code

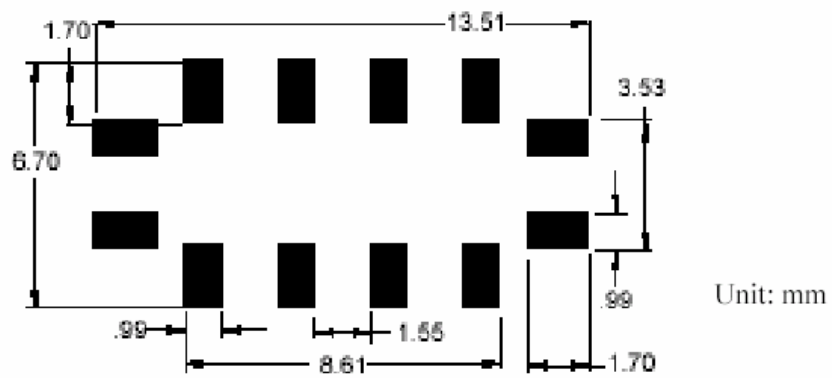
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

E. Measurement Circuit: Matching Circuit:



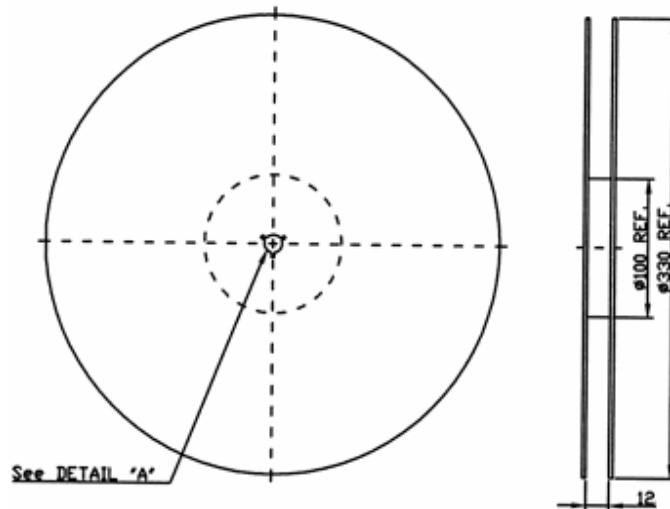
$C1 = 8\text{pF}$

F. PCB Footprint

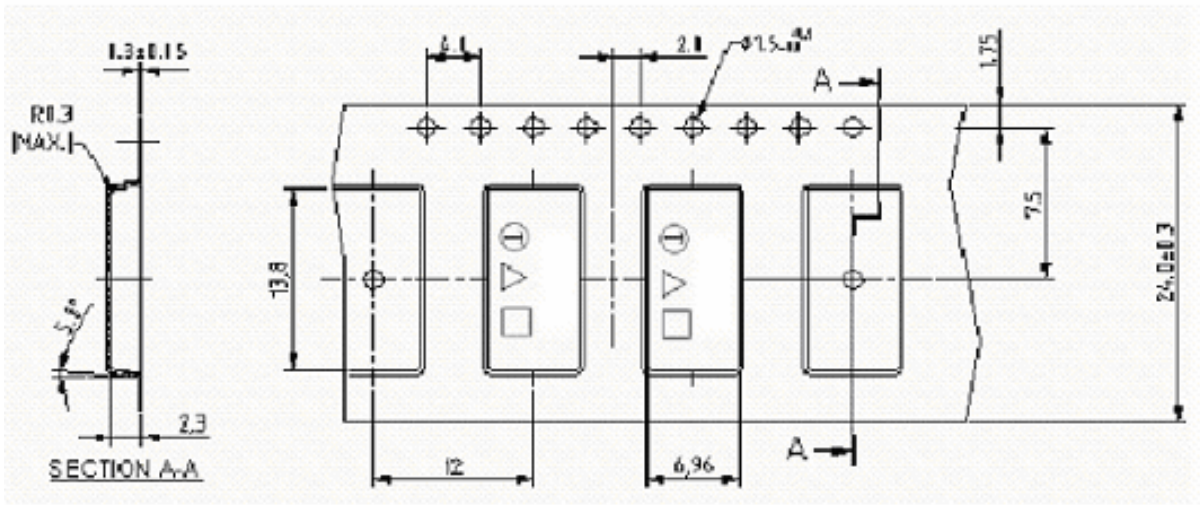


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

