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

Product Specifications Approval Sheet

Product Name: 827.4 MHz 4.5 MHz BW SMD 13.3 x 6.5 mm SAW IF Filter

TST Parts No.: TB1022A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Kazuma Lee

Approval by: Francis Chen

Date: 11 / 08 / 2011

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 827.4MHz SMD 13.3X6.5mm

MODEL NO.: TB1022A REV. NO.1

A. MAXIMUM RATING:

1. 1. Operating temperature range: -20°C to 70°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

Electrostatic **S**ensitive **D**evice

B. Characteristics :

1. Ambient Temperature: 25 °C

Characteristics		Value		
		Min.	Typ.	Max.
Center frequency	MHz	-	827.4	-
Maximum Insertion loss I.L.	dB	-	12.5	14.0
1dB Band Width	MHz	4.5	5.0	-
20dB Band Width	MHz	-	7.8	-
Passband Ripple at F_C±2.25 MHz	dB	-	0.4	-
Absolute Group Delay	usec	-	0.48	-
Attenuation:(Reference level from Min IL)				
Fc+/-4.1MHz		10	20	-
Single Input Impedance	Ohm	-	50	-
Single Output Impedance	Ohm	-	50	-
Temperature Coefficient	ppm/°C^2	-	-0.036	-

C. Frequency Characteristics :

(1) Narrow band Response:(span 50MHz)

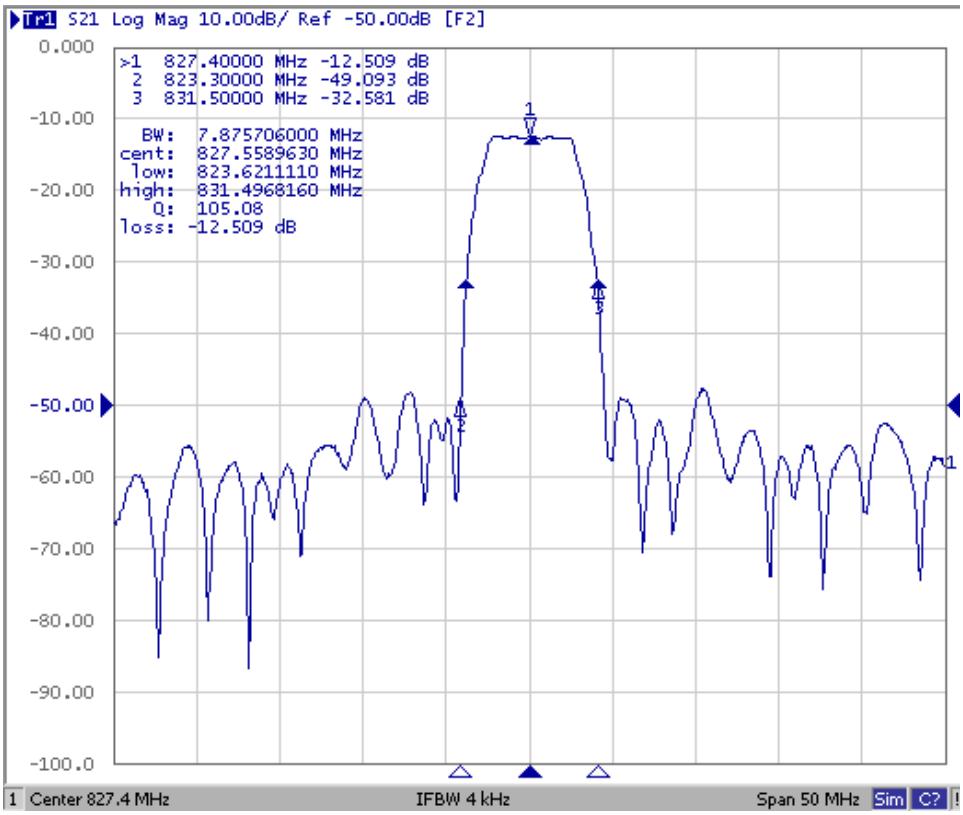


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Time Delay response:

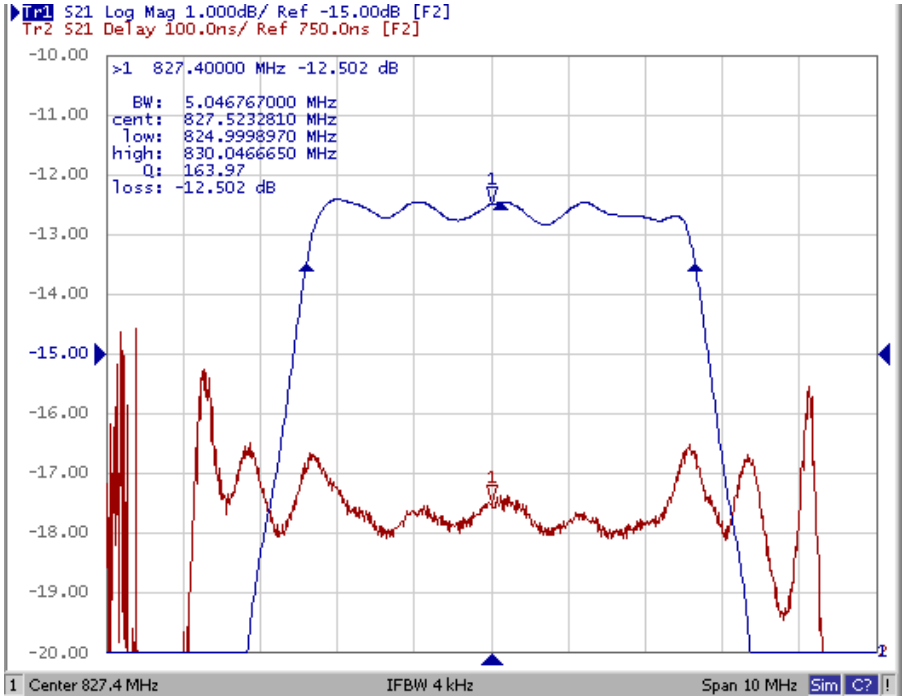
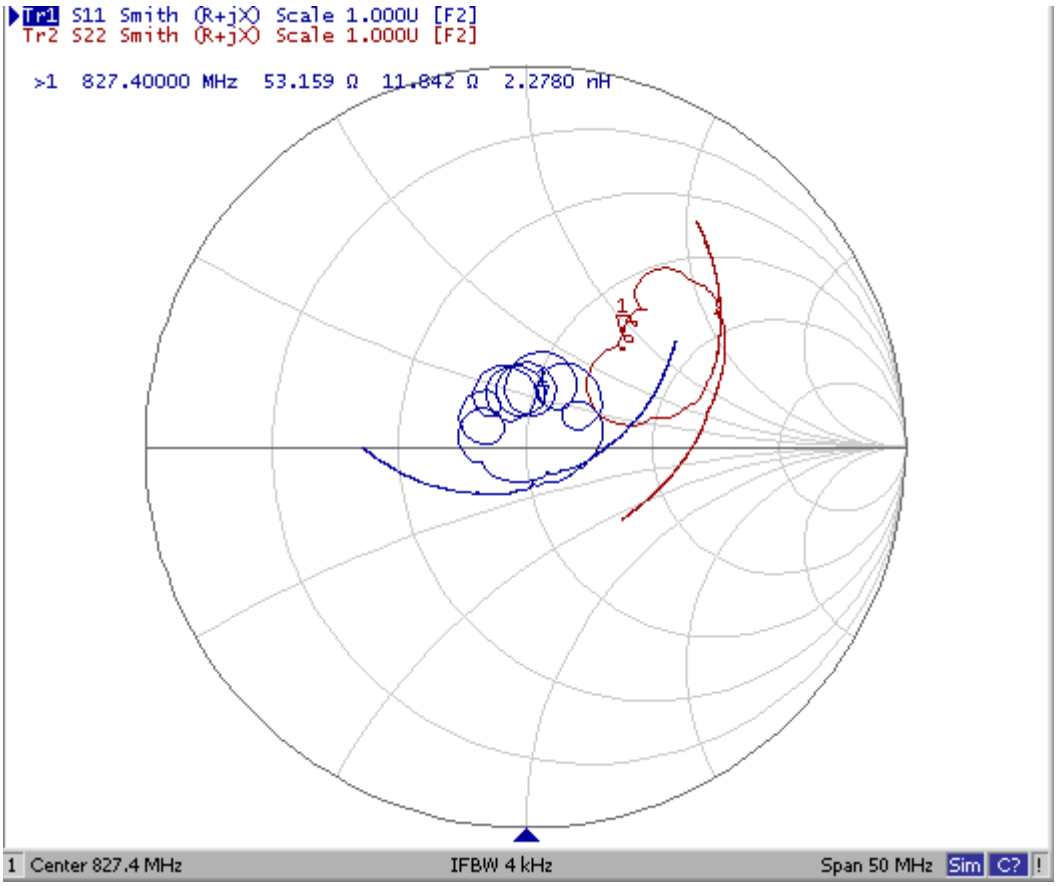
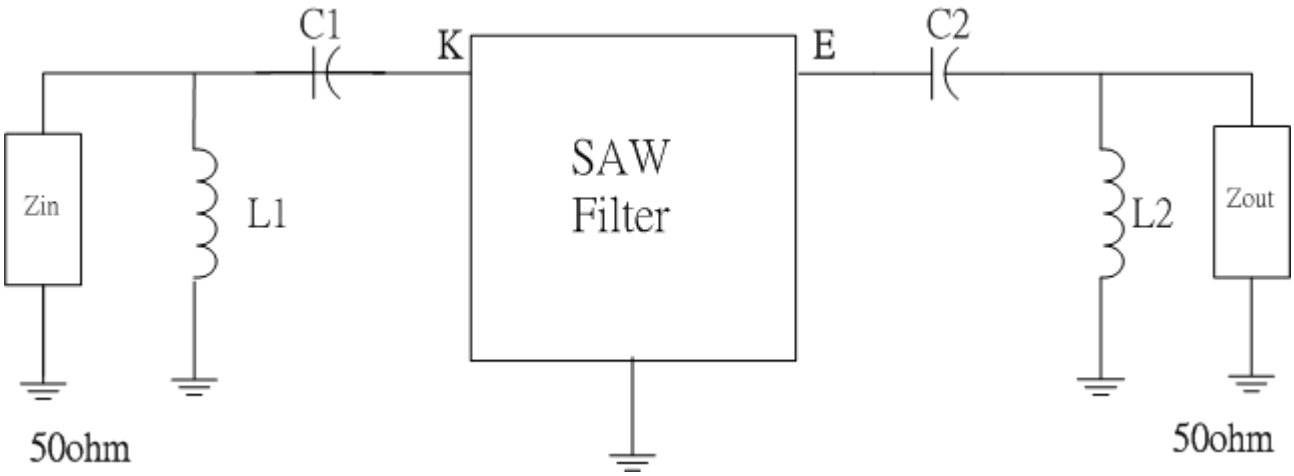


Fig2. Horizontal: 1MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

(3) Smith Chart:

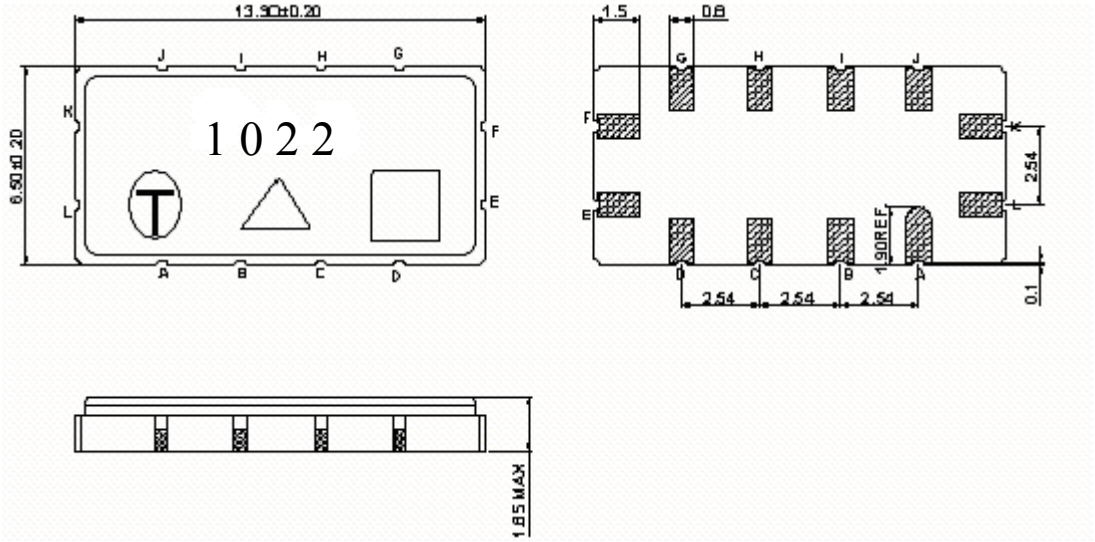


D. Matching Circuit:



L1=3nH C1=5.6pF L2=3nH C2=8pF

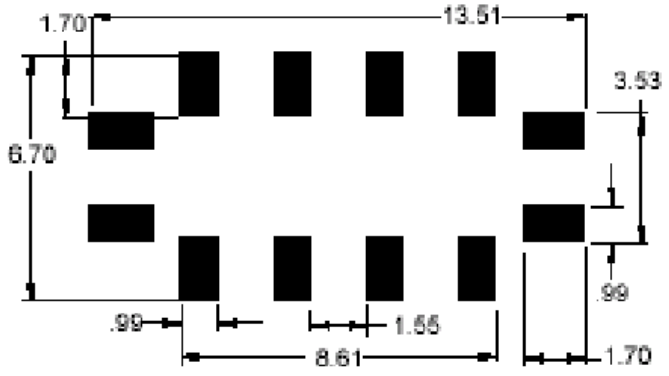
E. Outline Drawing:



#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

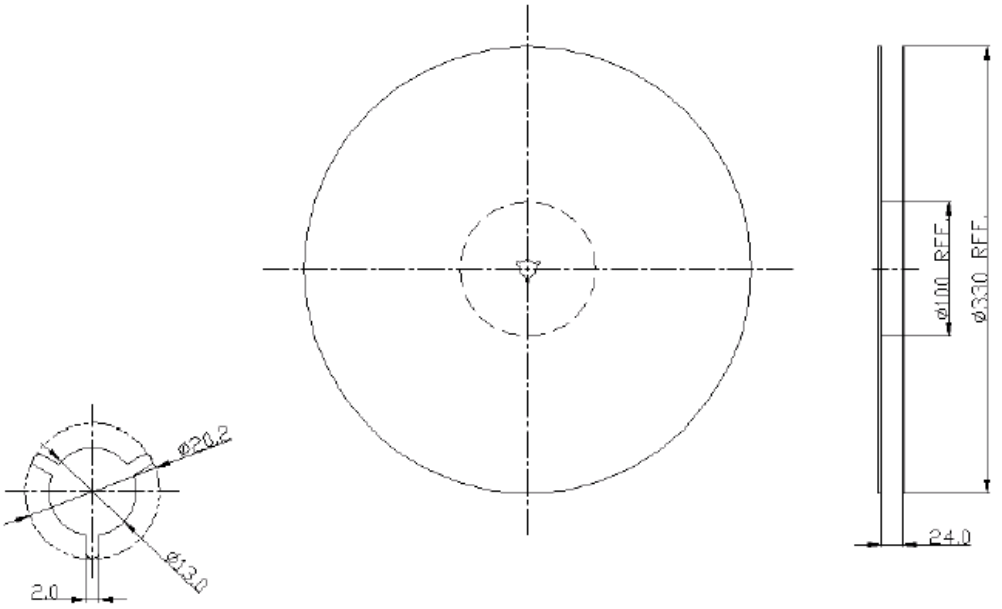
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	B	b

F. PCB Footprint:

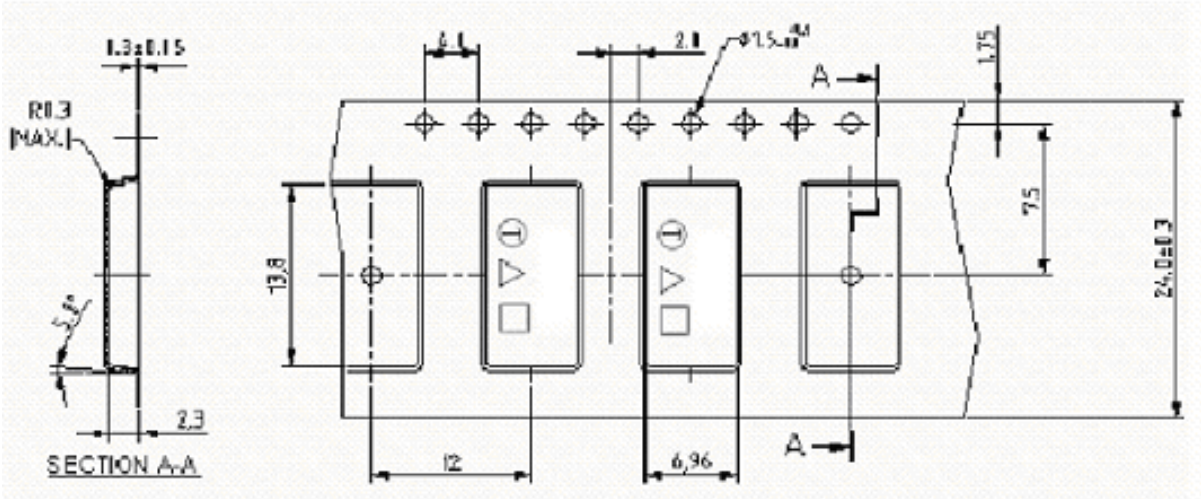


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

