



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

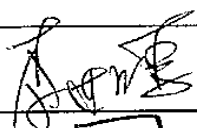
Product Specifications Approval Sheet

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

TST Parts No.: TB1023A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 10 / 24 / 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.



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

IF SAW Filter 827.4MHz SMD 13.3X6.5mm

MODEL NO.: TB1023A

REV. NO.1

A. MAXIMUM RATING:

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 Sensitive Device

B. Characteristics :

1. Ambient Temperature: 25 °C

Characteristics		Value		
		Min.	Typ.	Max.
Center frequency	MHz	-	827.4	-
Maximum Insertion loss I.L.	dB	-	18.0	22.0
1dB Band Width	MHz	4.5	5.4	-
20dB Band Width	MHz	-	8.0	-
Passband Ripple at $F_C \pm 2.25$ MHz	dB	-	0.6	1.2
Absolute group Delay	usec	-	0.8	-
Single Input Impedance	Ohm	-	50	-
Single Output Impedance	Ohm	-	50	-
Temperature Coefficient	ppm/°C ²	-	-0.036	-

C. Frequency Responses:

1. Wide band response

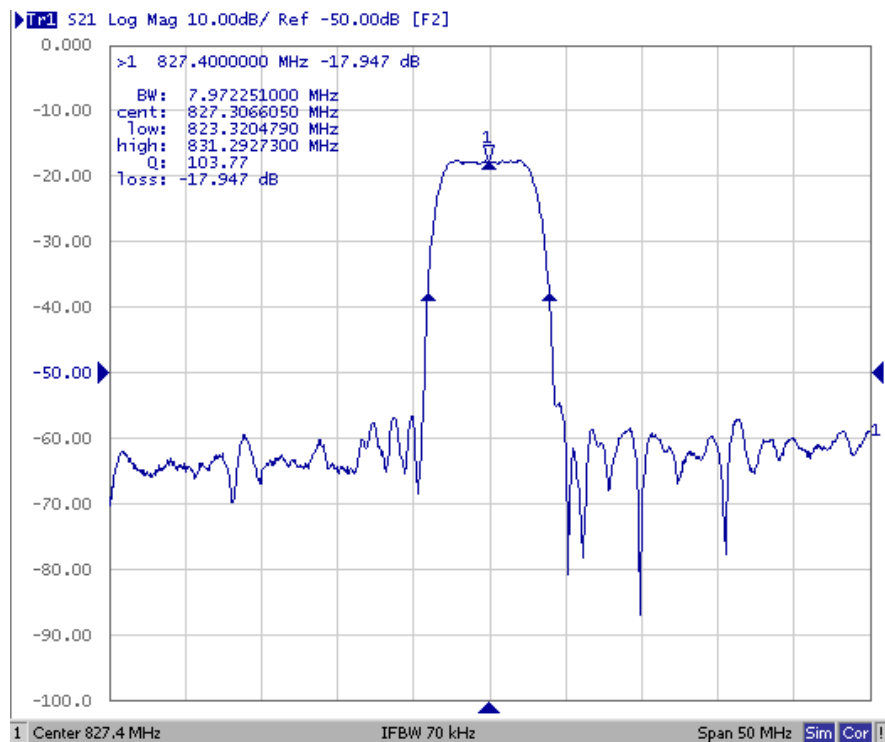


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

2. Pass band & Group Delay response

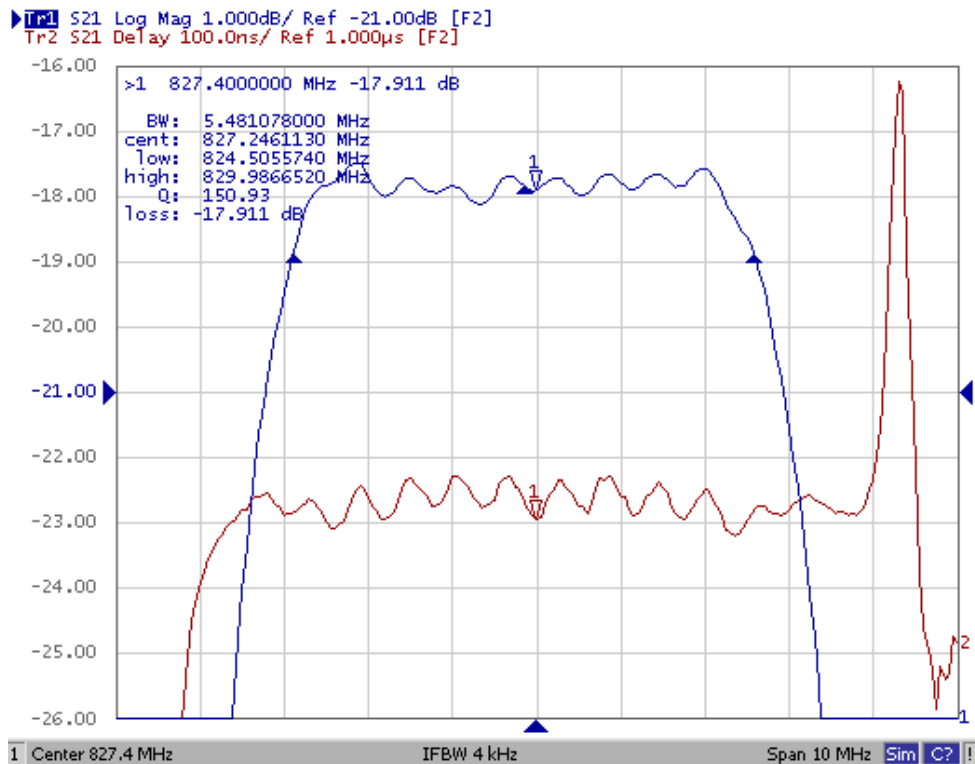
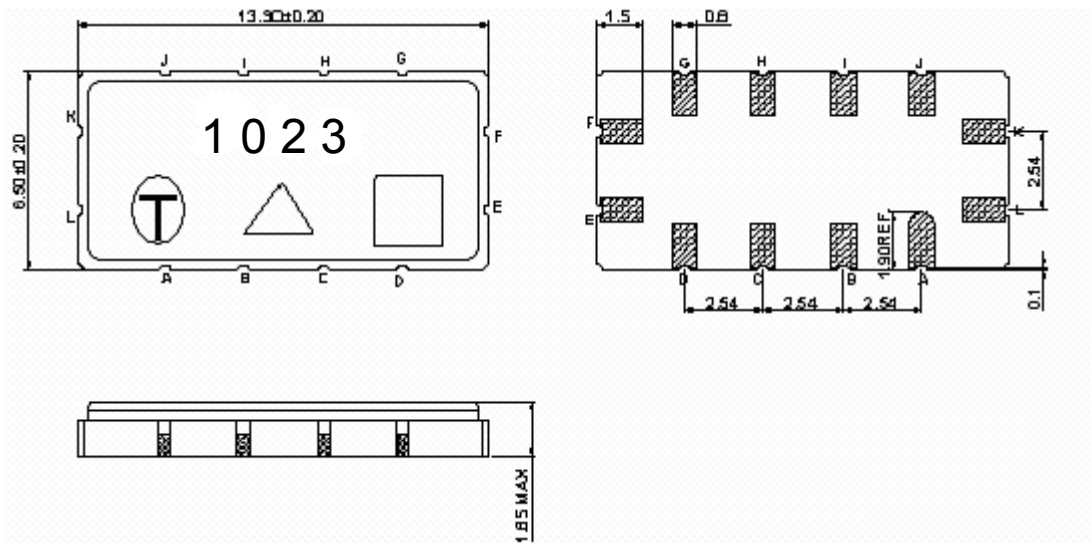


Fig2. Horizontal: 1MHz/Div Vertical: 1dB/Div

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

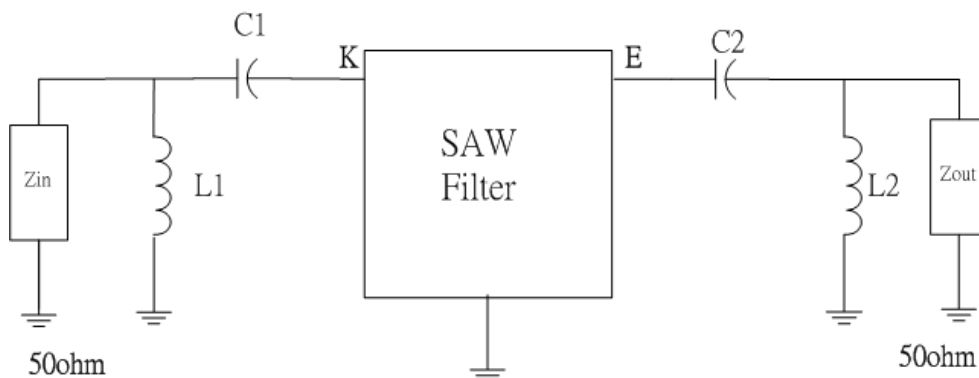
□ : Week Code (Follow the table from planner each year)

Unit: mm

△ : Product / Year Code

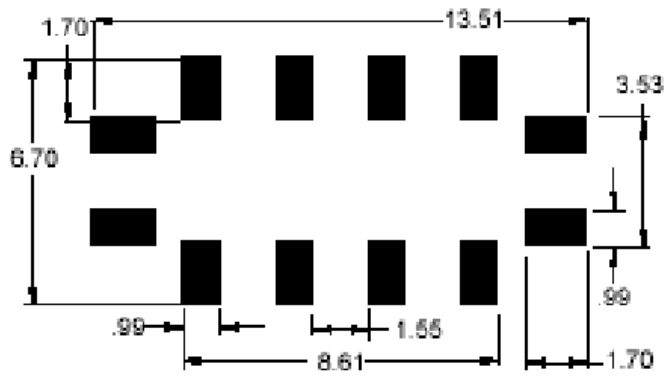
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

E. Measurement Circuit: Matching Circuit:



L1=3nH L2=5.6nH C1=4.7pF C2=3.9pF

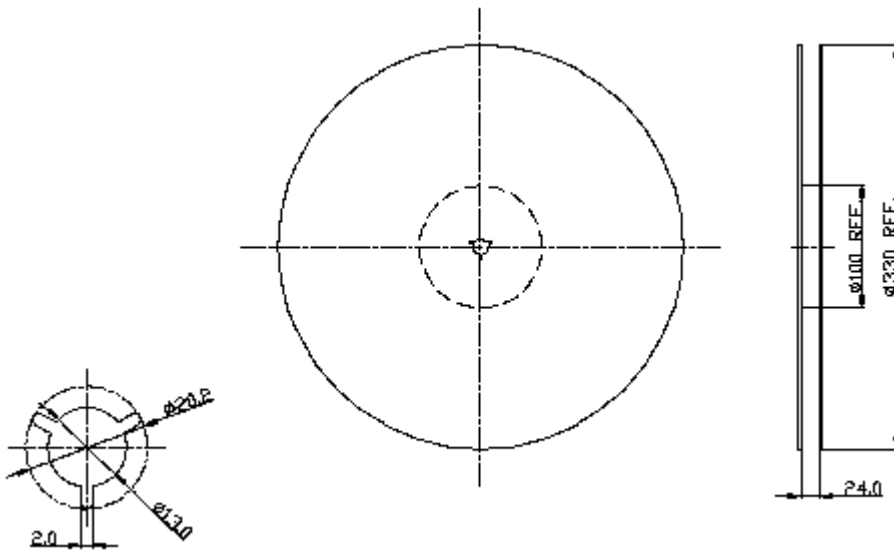
F. PCB Footprint



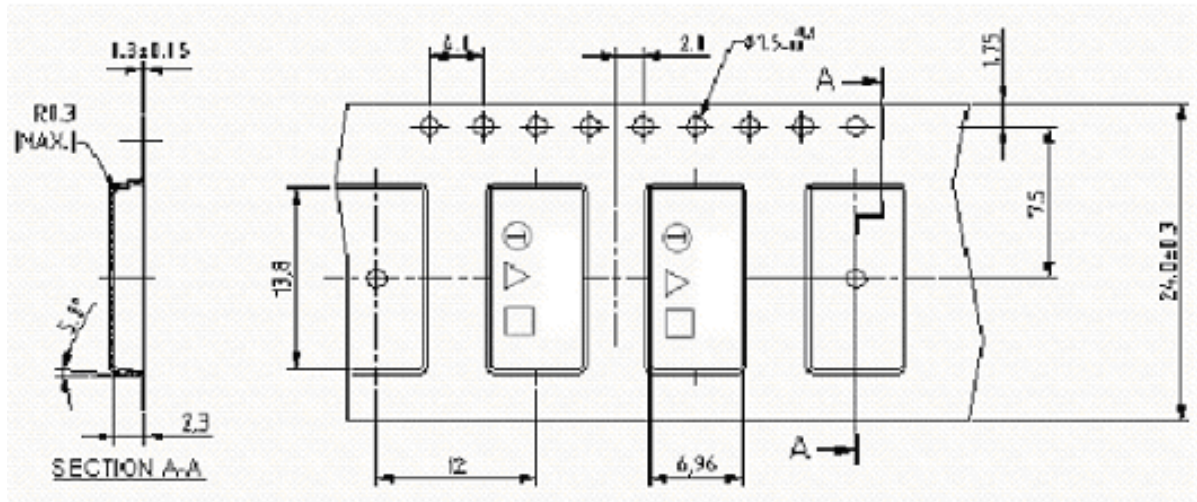
Unit: mm

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

