



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: IF SAW Filter 420 MHz (SMD 5.0mmX5.0mm)

TST Parts No.:TB0801A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Yu *Andy*

Approval by:_____ Francis Chen *Francis Chen*

Date:_____ 2009/09/23

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 420 MHz SMD 5.0mmX5.0mm

MODEL NO.: TB0801A

Rev. No. V1.0

A. Maximum Rating:

- 0. Maximum Input Power: 10dBm
- 1. Operating Temperature: -30 °C ~ +80 °C
- 2. Storage Temperature: -40 °C ~ +85 °C

RoHS Compliant
Lead free
Lead-free soldering

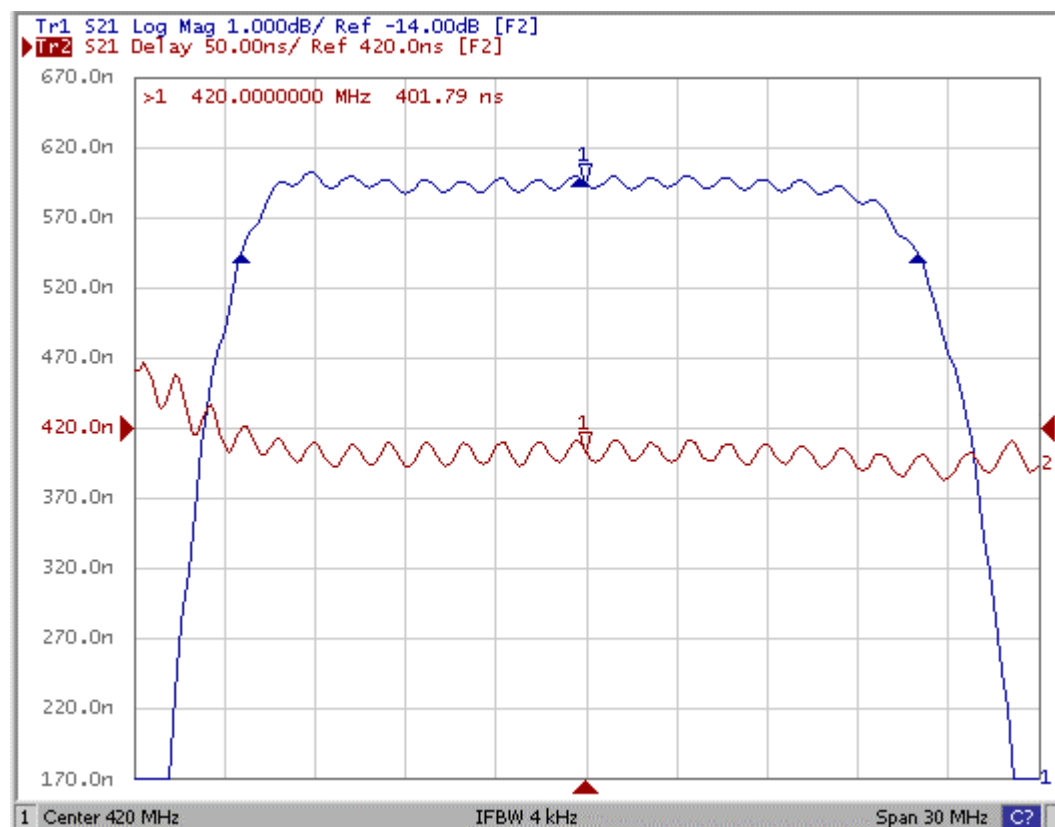
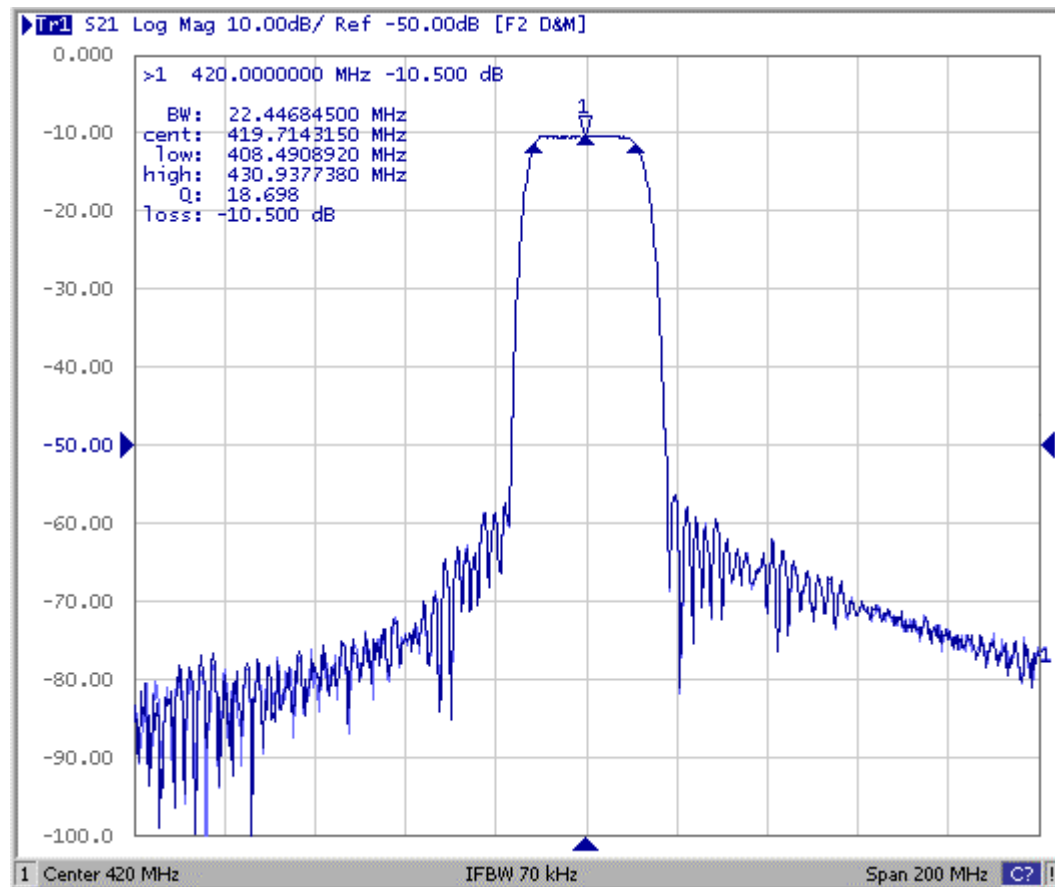
B. Characteristics :

- 1. Ambient Temperature: 25 °

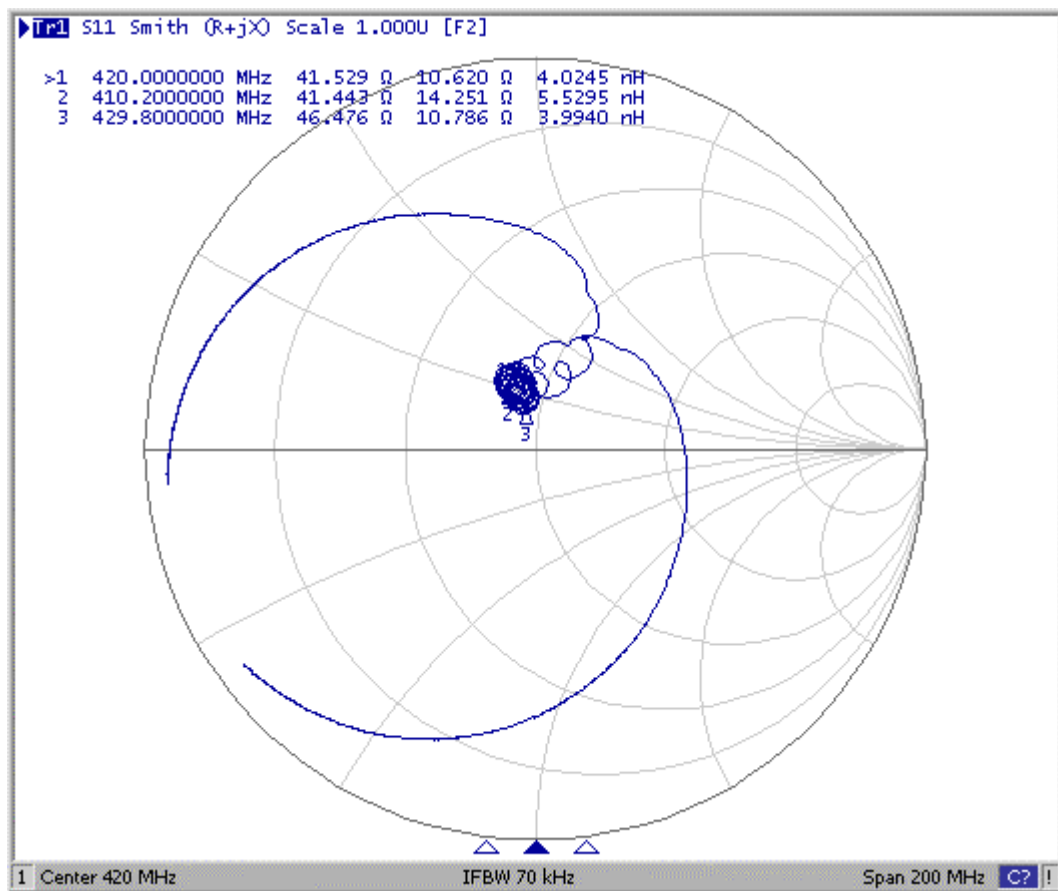
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_C MHz	-	420.0	-	-
Minimum Insertion loss I.L. dB	-	10.5	13.0	-
1 dB Bandwidth MHz	19.6	22.1	-	-
Return Loss dB	8.0	11.0	-	-
Ripple ($F_C \pm 9.8$ MHz) dB	-	0.6	1	-
Group-delay Ripple ($F_C \pm 9.8$ MHz) nsec	-	20	75	-
Attenuation (Reference level from Minimum insertion loss)				
(1) 10 ~ 400MHz dB	40	49	-	-
(2) 440 ~ 2300MHz dB	40	50	-	-
(3) at 324MHz	45	68		
(4) at 372MHz	45	62		
Temperature Coefficient		-23		
Single (Differential) Input Impedance Ohm	-	50(100)	-	
Single (Differential) Output Impedance Ohm	-	50(100)	-	

C. Frequency Characteristics :

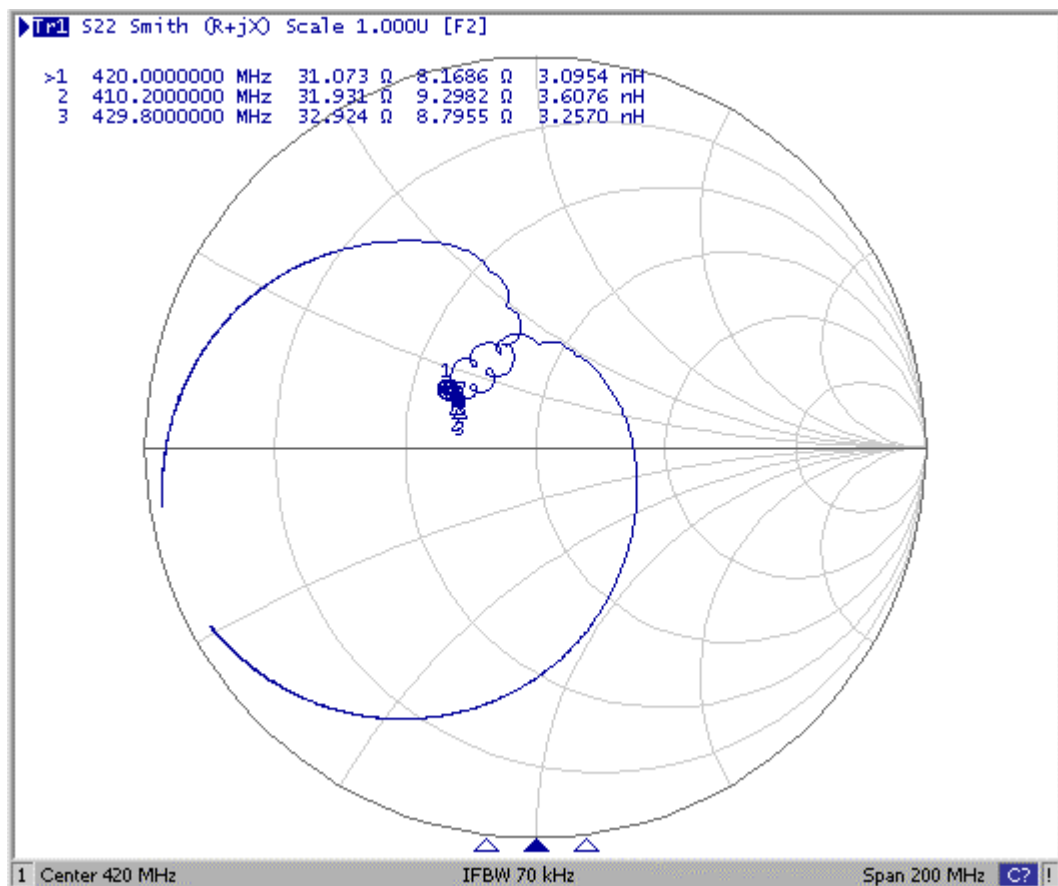
S11 Response:



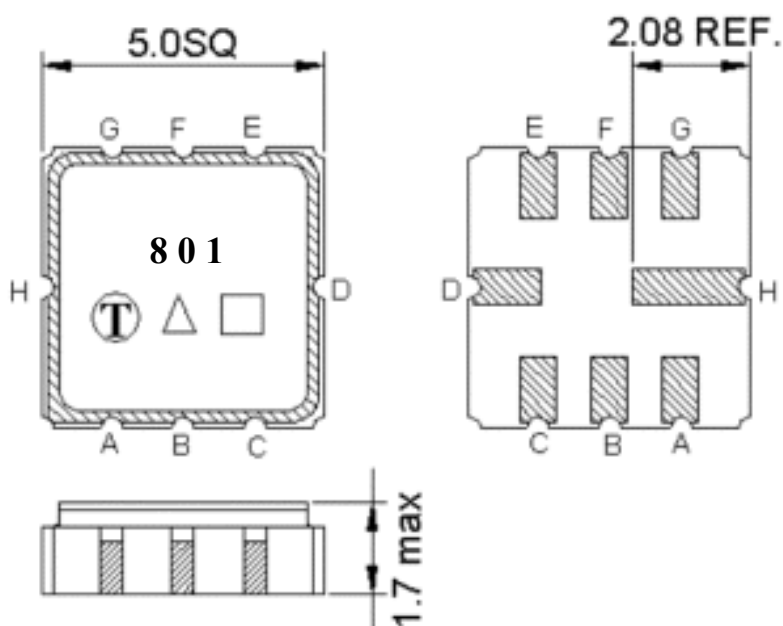
S11 Smith-Chart



S22 Smith-Chart



D. Outline Drawing:



Pin A: **RF input** or balanced input+

Pin B: Ground or RF balanced input-

Pin E: **RF output** or balanced output+

Pin F: Ground or RF balanced output-

Pin D,H: Case Ground

Pin C, E : Ground

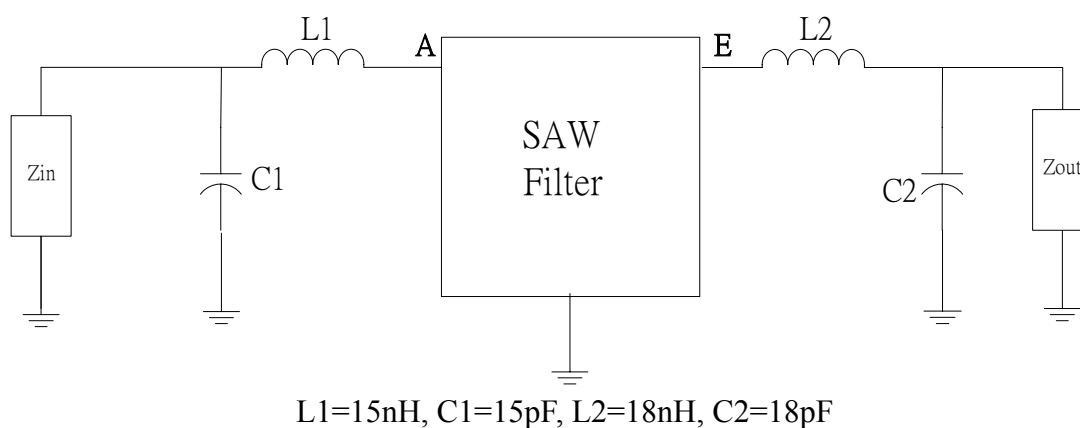
□ : Week Code (Follow the table from planner each year)

Unit : mm

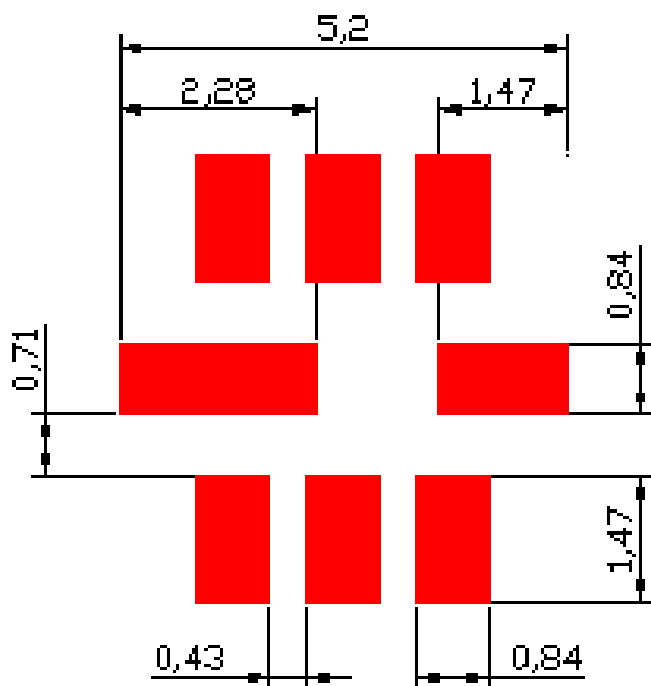
△ : Product / Year Code

Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

E. Measurement Circuits : $Z_{in}=Z_{out}= 50 \text{ ohm}$



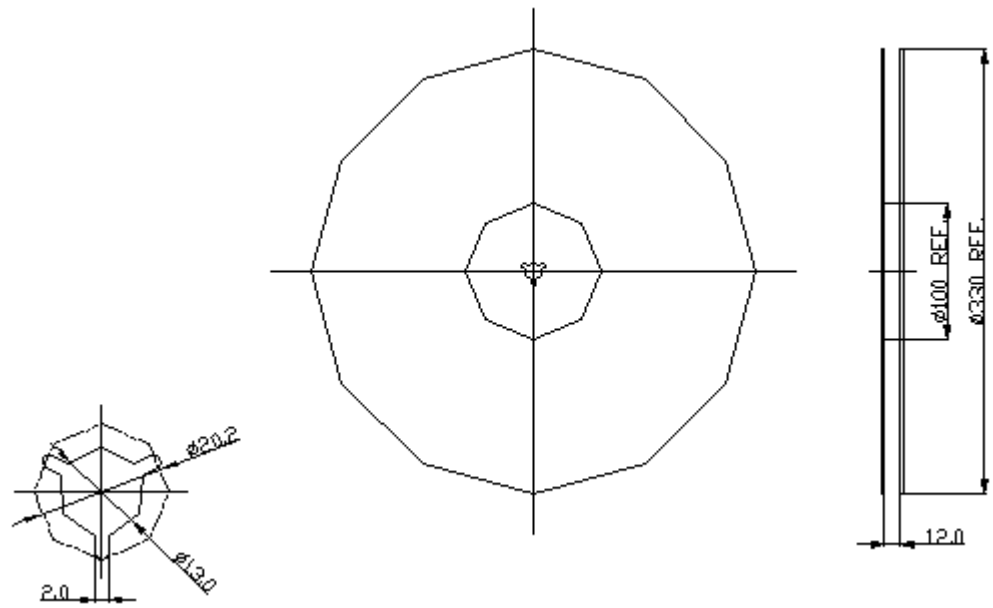
F. PCB Footprint



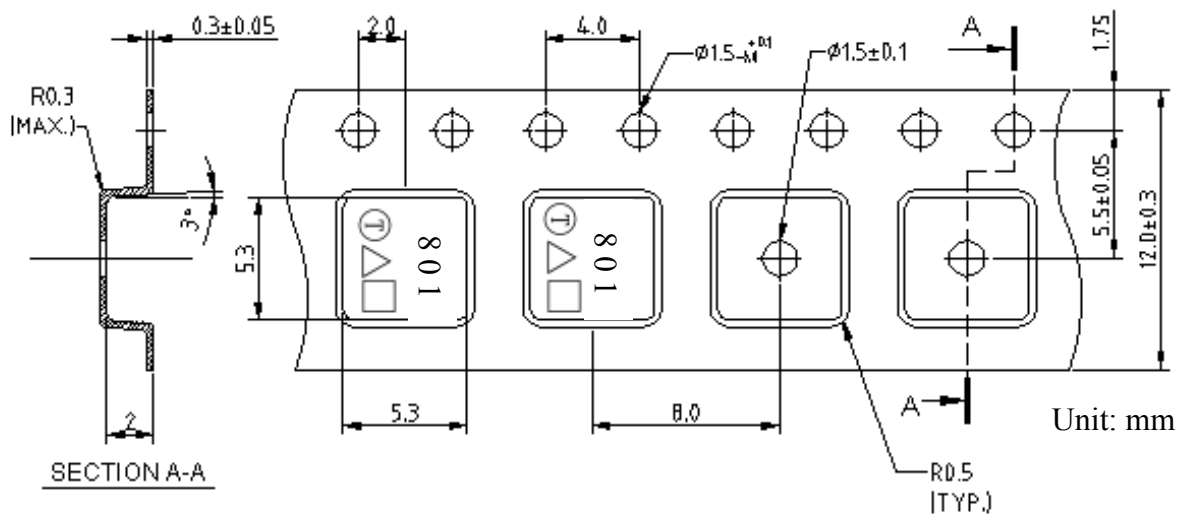
G. Package:

(1). REEL DIMENSION

(Reel Count: 7"=1000 typ.; 13"=3000 typ.)



(2). TAPE DIMENSION



H. Recommended Reflow Profile_:

