



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Tao-Yuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Approval Sheet for Product Specification

Issued Date:

Product Name: 494MHz IF SAW Filter (BW=77 MHz)

TST Parts No.: TB0420A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu

Approval by: _____ Francis Chen

Date: _____ 11/14/2006



TAI-SAW TECHNOLOGY CO., LTD.

No.3, Industrial 2nd Rd., Ping-Chen Industrial District, Taoyuan, Taiwan, R.O.C.

TEL: 886-3-4690038

FAX: 886-3-4697532

E-mail: tstsales3@mail.taisaw.com Web: www.taisaw.com

SAW Filter 494MHz (SMD 5.0×5.0 mm)

MODEL NO.: TB0420A

Rev. NO. 1

A. MAXIMUM RATINGS:

1. Input Power Level: 10 dBm
2. Operating Temperature: -25 °C ~ 70°C
3. Storage Temperature: -40°C to 80°C

RoHS Compliant
Lead free
Lead-free soldering

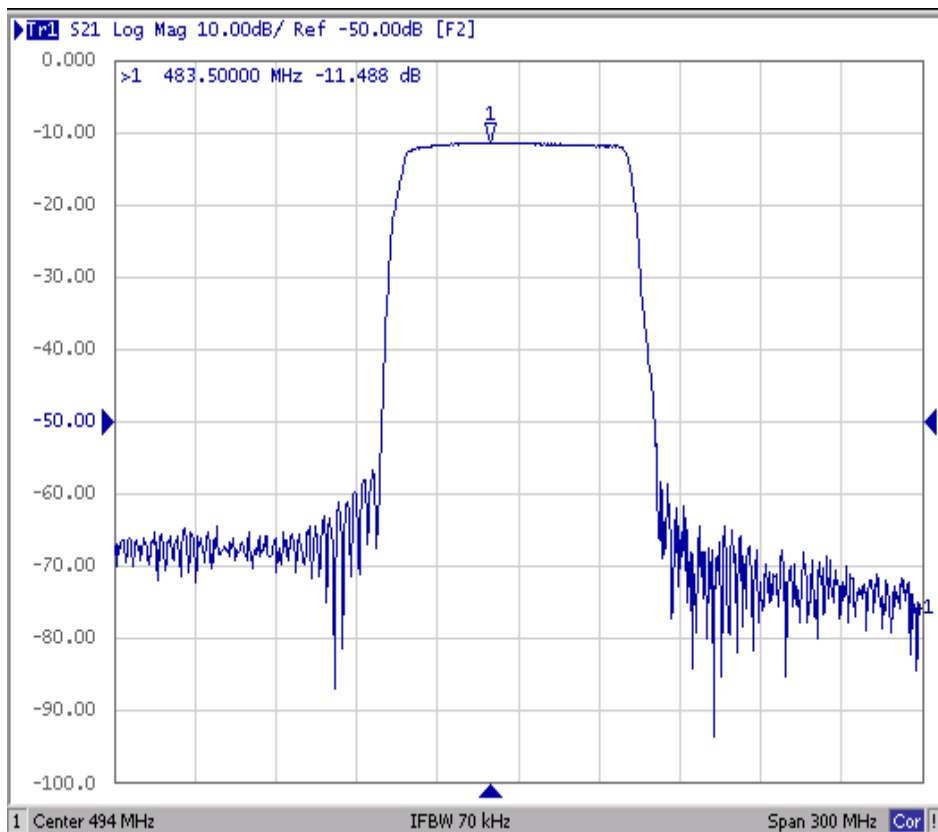
B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

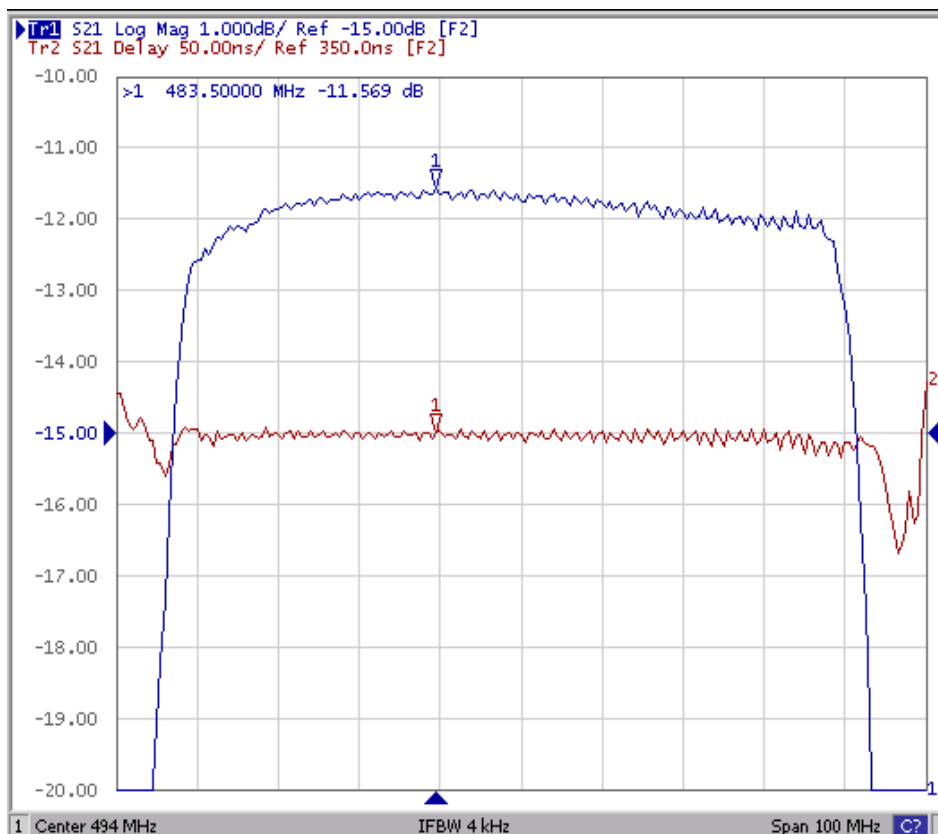
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_C MHz	-	494	-	-
Minimum Insertion loss I.L. dB	-	11.5	13	-
1 dB Bandwidth MHz	77	80	-	-
3 dB Bandwidth MHz	80	84	-	-
Ripple (456.8~531.8MHz) dB	-	0.65	1	-
Group-delay Ripple (456.8~531.8MHz) nsec	-	20	100	-
Attenuation (Reference level from Minimum insertion loss)				
(1) 361.8~436.8MHz dB	25	45	-	-
(2) 611MHz dB	40	62	-	-

C. FREQUENCY CHARACTERISTICS:

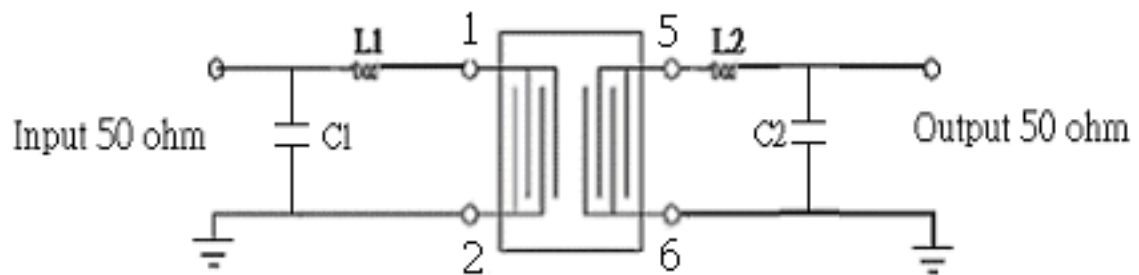
(1) S21 Response:(span 300MHz)



(2) Passband of Response: (span: 100MHz)

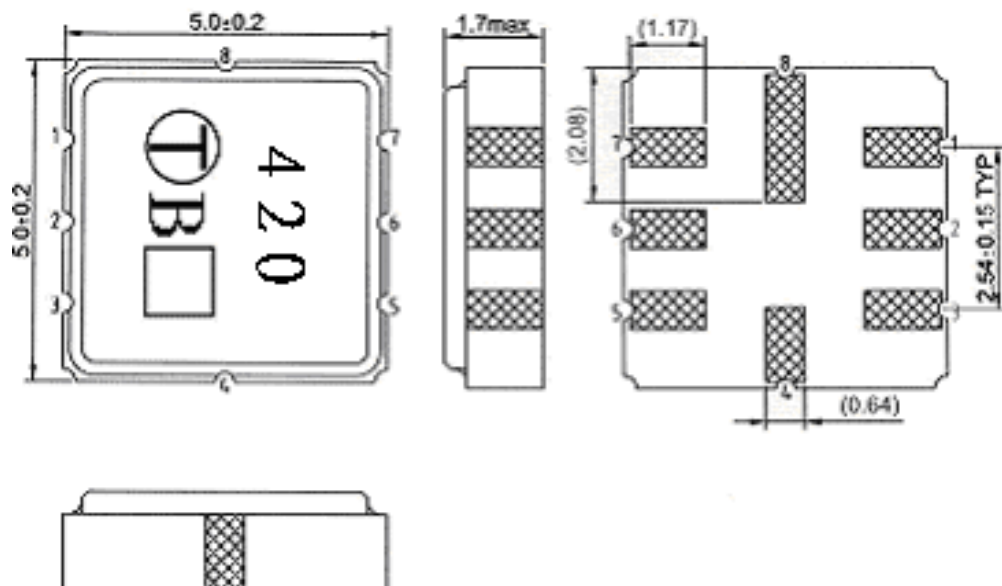


D. TEST CIRCUIT:



$$L1=2.8\text{nH}, C1=13\text{pF}, L2=3\text{nH}, C2=12\text{pF}$$

E. OUTLINE DRAWING:



Pin 1: RF input

Pin 5: RF output

Pin 4,8: Case Ground

Pin 2,3,6,7: Ground

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

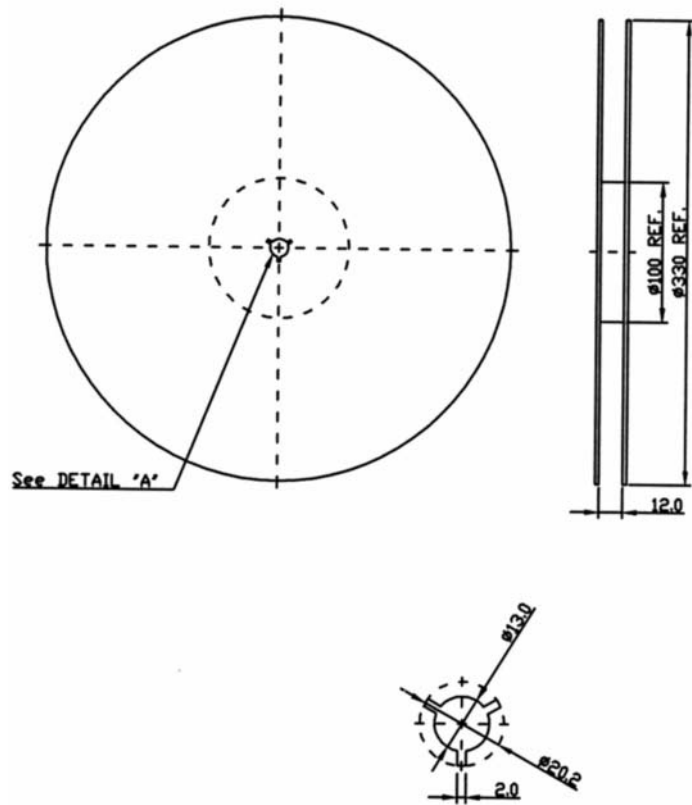
Unit : mm

△ : Product / Year Code

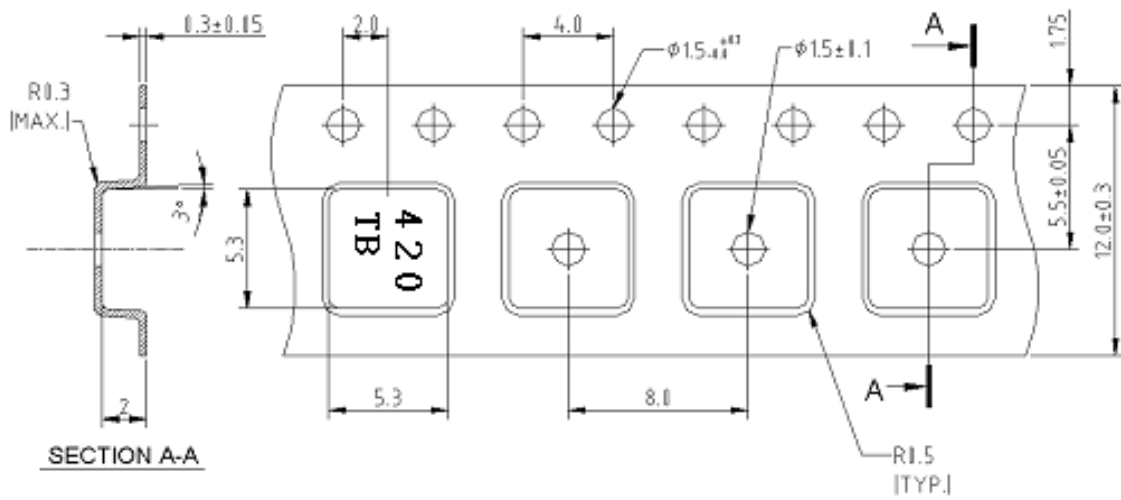
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

F.PACKING:

1. REEL DIMENSION



2.TAPE DIMENSION



Direction of feed

G. Recommended Reflow Profile:

