



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

Approval Sheet For Product Specification

Issued Date:

Product Name: 48MHz IF SAW Filter (BW=3.125 MHz)

TST Parts No.: TB0412A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Andy Yu

Approval by: _____ Francis Chen

Date: _____ 2007/05/29



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

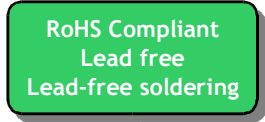
SAW Filter 48MHz (SMD 13.3×6.5 mm)

Model No.: TB0412A

Rev. No.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operating Temperature: -40°C to +85°C
3. Storage Temperature: -40°C to +85°C

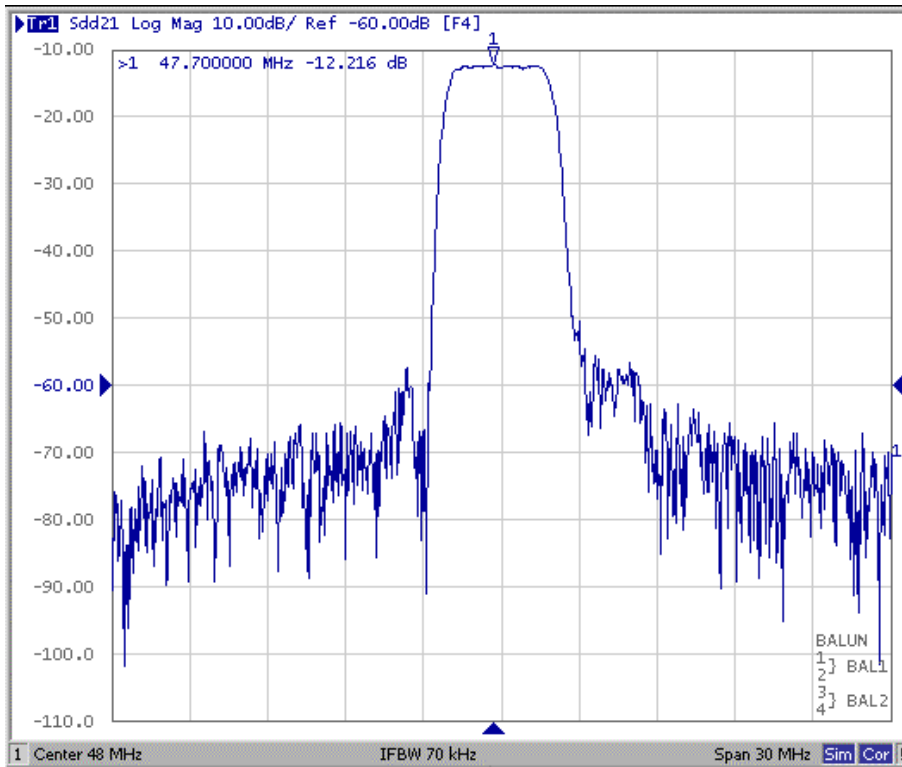


B. Characteristics :

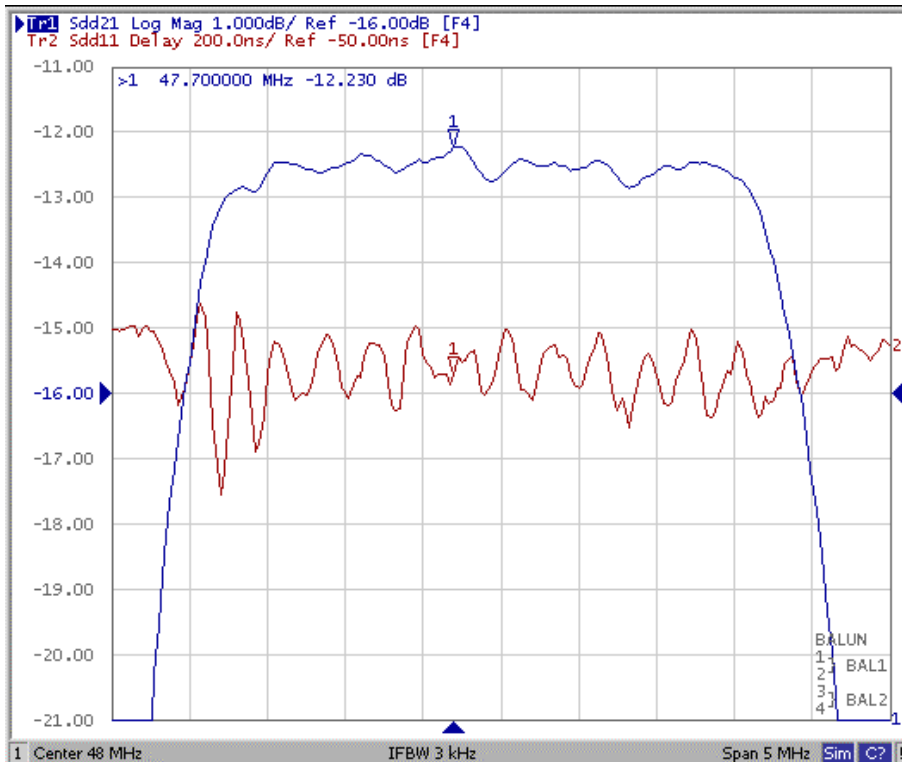
Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	48	-
Insertion Loss, IL	dB	-	12.5	16
1 dB Bandwidth	MHz	3.125	3.40	-
3 dB Bandwidth	MHz	3.5	3.90	-
Pass band Ripple Fc±1.5MHz	dB	-	0.6	1.0
Group delay Variation Fc±1.56MHz		-	135	220
Stopband Rejection				
Fc±1.54MHz	dBc	-	2.6	-
Fc±2.72MHz	dBc	30	35	-
Fc±3.50MHz	dBc	40	45	-
Fc±5.0MHz	dBc	45	47	-

C. Frequency Characteristics :

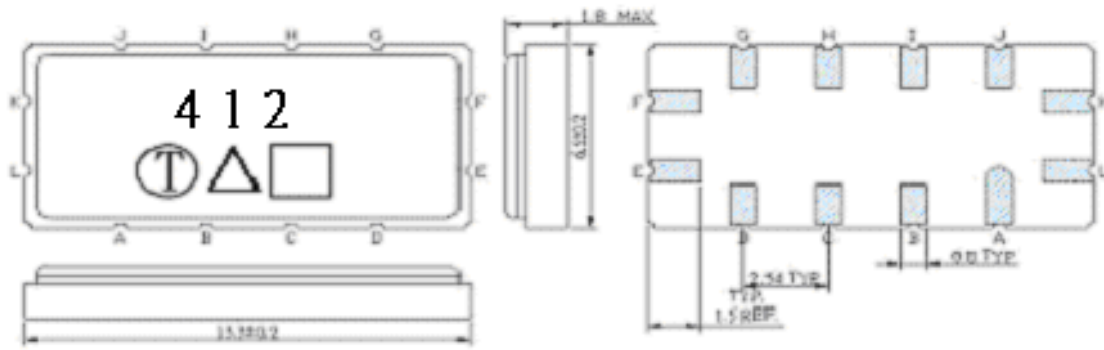
(1) Frequency Response



(2) Passband response and Group Delay Variation:



D. Outline Drawing:



Unit: mm

Pin K=L: RF input

Pin E=F: RF output

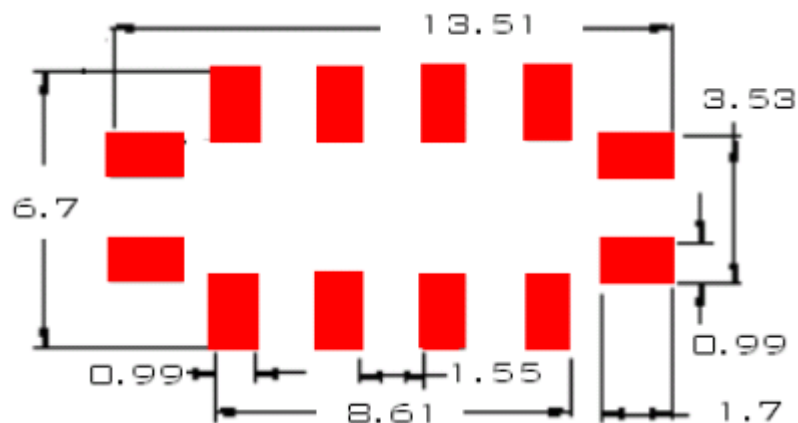
□ : Week Code (Follow the table from planner each year)

Unit : mm

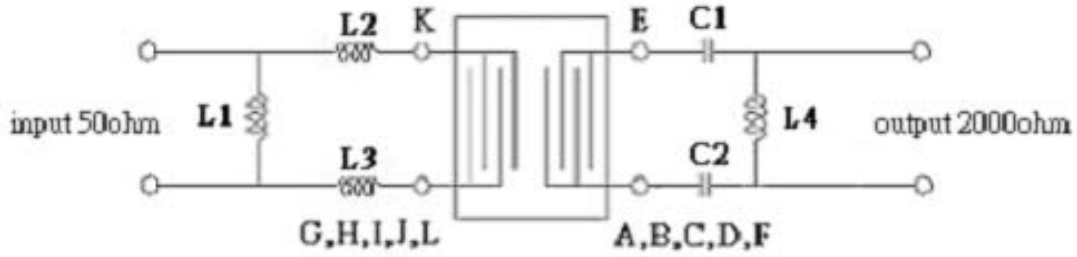
△ : Product / Year Code

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

E. PCB Footprint:



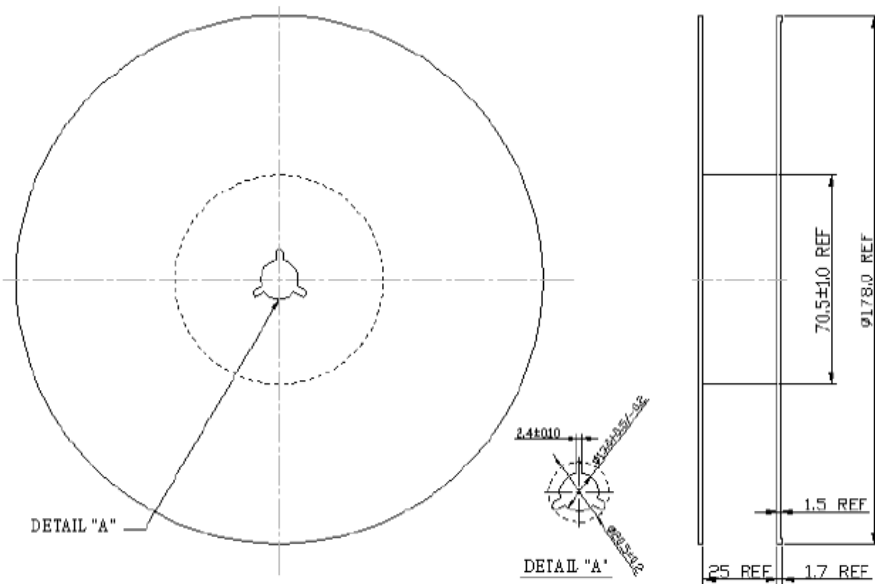
F. Matching Circuit:



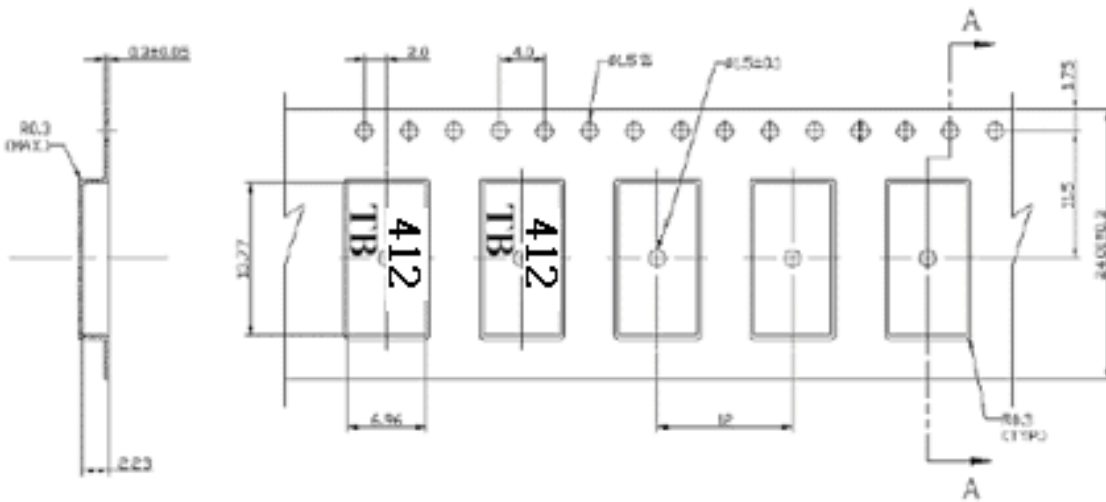
$L1=82\text{nH}$, $L2=L3=18\text{nH}$, $L4=750\text{nH}$, $C1=C2=68\text{pF}$

G. Packing:

(1). REEL DIMENSION:



(2). TYPE DIMENSION:



H. Recommended Reflow Profile:

