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=9 MHz)

TST Parts No.: TB0411A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Andy Yu

Approval by: Francis Chen

Date: 2007/05/29

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SAW Filter 48MHz (SMD 13.3×6.5 mm)
Model No.: TB0411A Rev. No.:1.0

A. MAXIMUM RATING:

RoHS Compliant
Lead free
Lead-free soldering

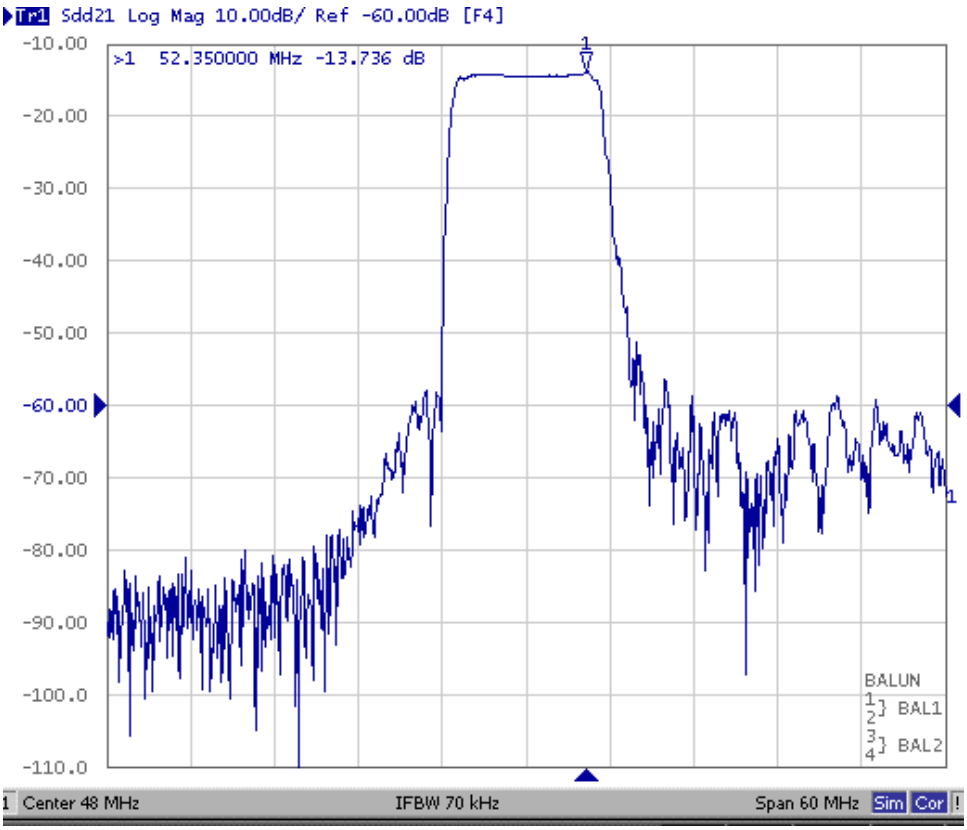
1.Input Power Level: 10 dBm
2. Operating Temperature: -40°C to +85°C
3. Storage Temperature: -40°C to +85°C

B. Characteristics :

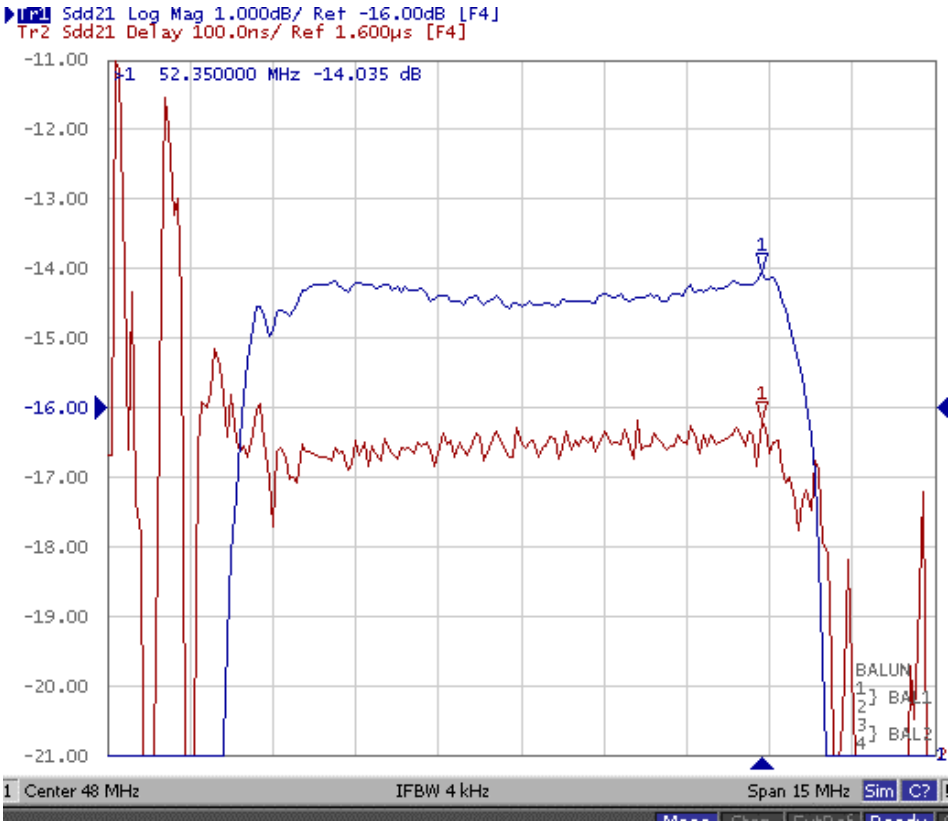
Item	Unit	Min.	Type.	Max.
Center frequency, **Fc**	MHz	-	48	-
Insertion Loss, **IL**	dB	-	13.5	16.0
1 dB Bandwidth	MHz	9	10.1	-
3 dB Bandwidth	MHz	-	10.5	-
Pass band Ripple **Fc±4.25MHz**	dB	-	0.6	1.2
Group delay Variation **Fc±4.5MHz**	nsec	-	120	220
Stopband Rejection (ref: Max IL)				
Fc±5.5MHz	dBc	-	5.5	-
Fc±7.75MHz	dBc	35	43	-
Fc±10.0MHz	dBc	40	53	-
Fc+15.0~25.0MHz	dBc	40	52	-
Fc-15.0~25.0MHz	dBc	40	68	-
Operating Temp Range	°C	-40	25	80
Frequency Stability	kHz	-300		300
Termination Impedance	Ohm	50(input), 2000(output)		

C. Frequency Characteristics :

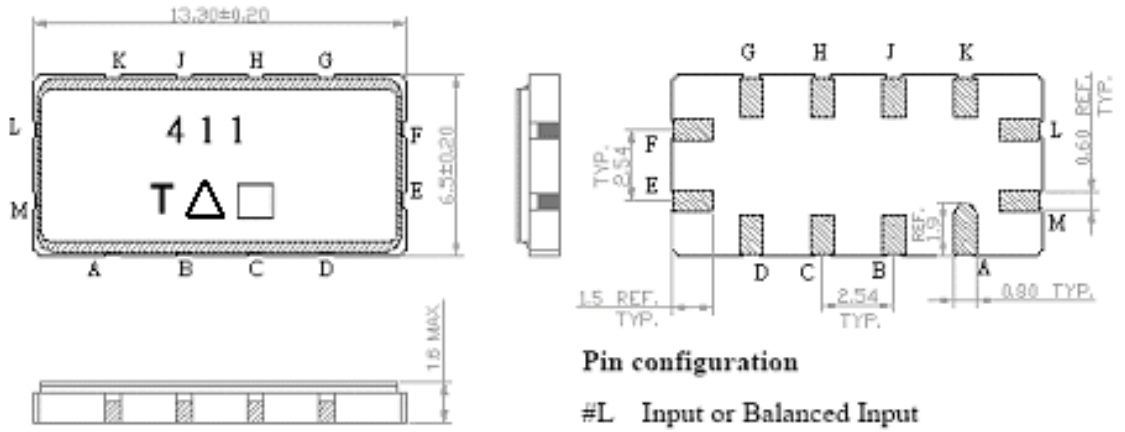
(1) wide band Response: (span 60MHz)



(2) Pass band Response: (span 15MHz)



D. Outline Drawing:



Pin configuration

#L Input or Balanced Input

#M Input ground or Balanced Input return

#E Output or Balanced Output

#F Output ground or Balanced Output return

#A,B,C,D,G,H,J,K To be grounded

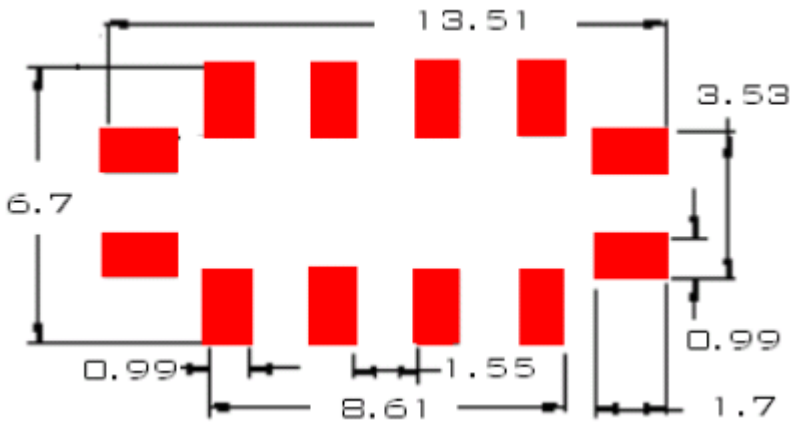
□ Date code

Unit mm

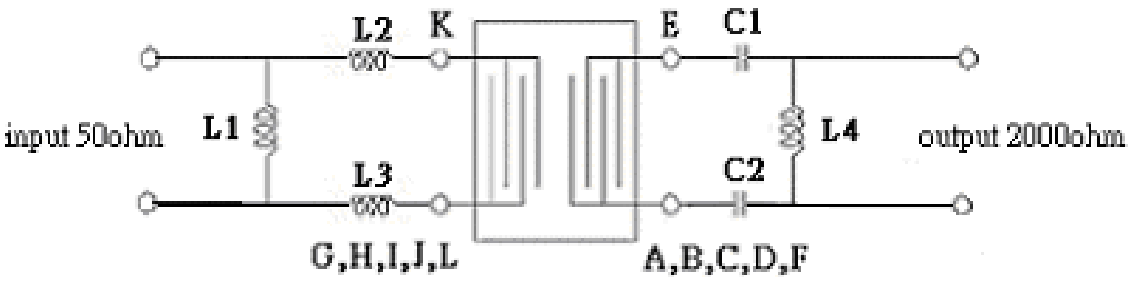
△ : Product / Year Code

Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	B	b

E. PCB Footprint:



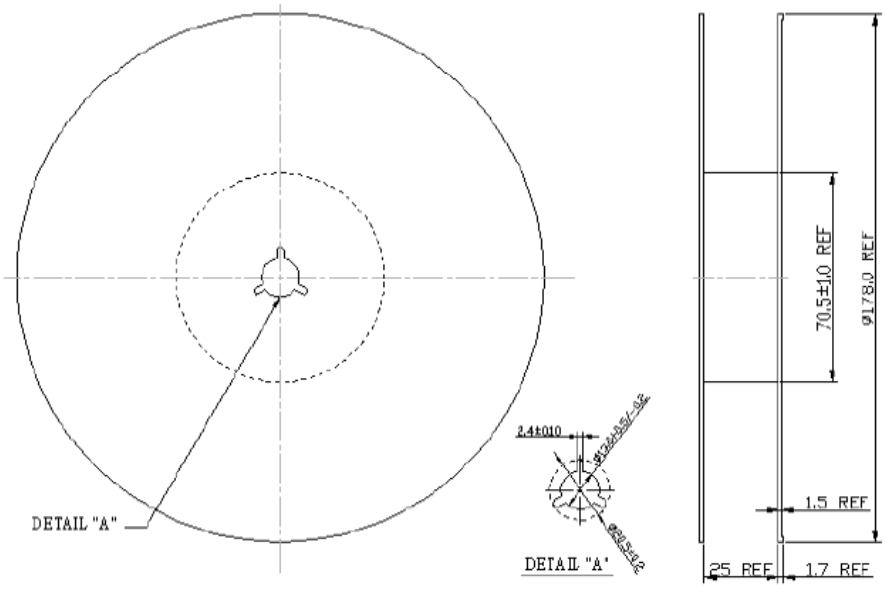
F. Matching Circuit:



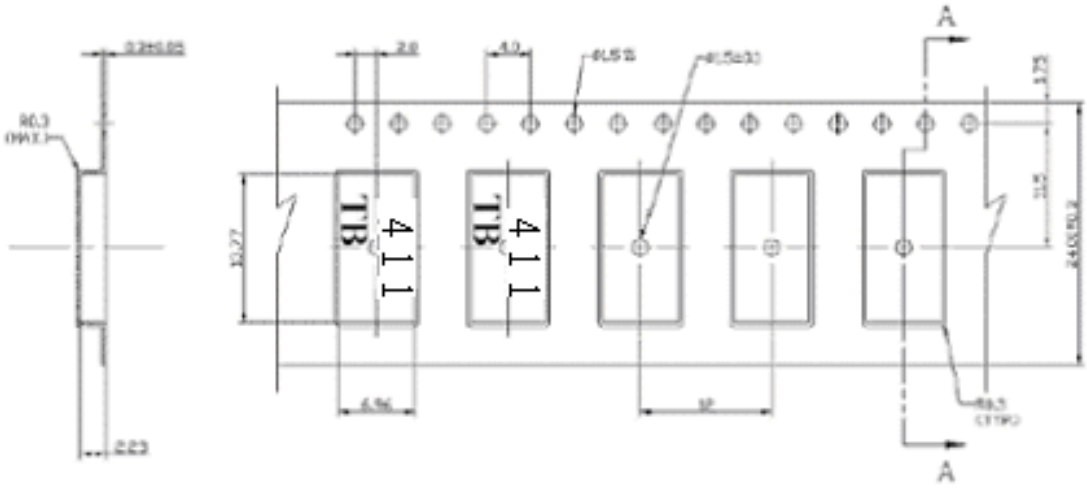
L1=890nH, L2=L3=47nH, L4=970nH, C1= C2=36pF

G. Packing:

(1). REEL DIMENSION:



(2). TYPE DIMENSION:



H. Recommended Reflow Profile: