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: IF SAW Filter 44 MHz

TST Parts No.:TB0486A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Kazuma Lee _____

Approval by:_____ Francis Chen _____

Date:_____ 2008/12/15 _____

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IF SAW Filter 44MHz(BW=5.6MHz) for digital TV

MODEL NO.: TB0486A REV. NO.3

A. MAXIMUM RATING:

DC voltage	V_{DC}	12	V	Between any terminals
AC voltage	V_{PP}	10	V	Between any terminals
Operating Temperature Range	T_A	-25~65	℃	
Storage Temperature Range	T_{stg}	-40~85	℃	

B. Characteristics :

RoHS Compliant

Lead-free soldering

1. Electronic Characteristics

Reference temperature: Ta=25℃

Terminating source impedance Z_S=50Ω

Terminating load impedance Z_L=2kΩ//3pF

2 .Amplitude Characteristics

	MIN.	TYP.	MAX.	
Center frequency fc Center frequency between 10dB point	-	44.0	-	MHz
Insertion attenuation Reference level for the Following data 44.08(44.00) MHz	12.0	14.0	16.0	dB
Amplitude ripple 41.75-46.41 (41.67-46.33) MHz	0.0	0.6	1.0	dB
3dB Pass Bandwidth	5.4	5.6	5.8	MHz
30dB Pass Bandwidth	7.0	7.3	7.6	MHz
Lower side lobe 35.08-38.08(35.00-38.00) MHz 38.08-40.13(38.00-40.05) MHz	 42.0 38.0	 48.0 45.0	 - -	 dB dB
Upper side lobe 48.03-50.33(47.95-50.25) MHz 50.33-55.08(50.25-55.00) MHz	 37.0 41.0	 45.0 50.0	 - -	 dB dB
Reflected Wave Signal Suppression	42.0	52.0		dB
Feed through Signal Suppression	50.0	56.0		dB
Group delay ripple 41.75…46.41(41.67…46.33) MHz	-	40	-	ns
Impedance at 44.08 MHz Input Impedance Output Impedance	-	 1.5||15.4 1.3||4.6	-	 KΩ||pF KΩ||pF
Temperature Coefficient of frequency	-	-72.0	-	ppm/K

C. Frequency Characteristics :

1. S21 Response: (span 20MHz)

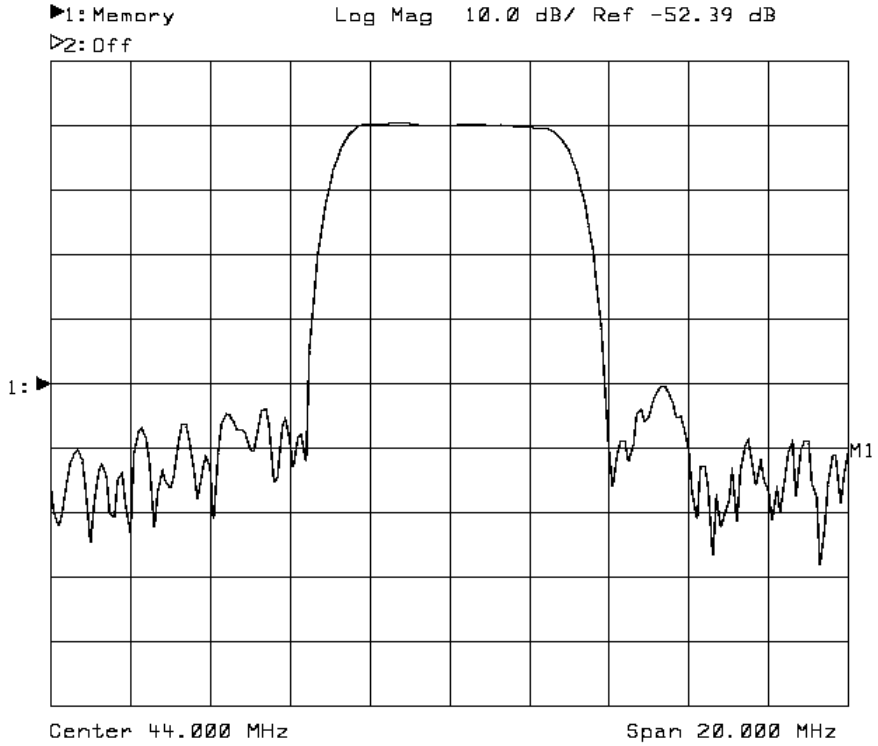


Fig.1 Horizontal : 2MHz/Div Vertical: 10B/Div

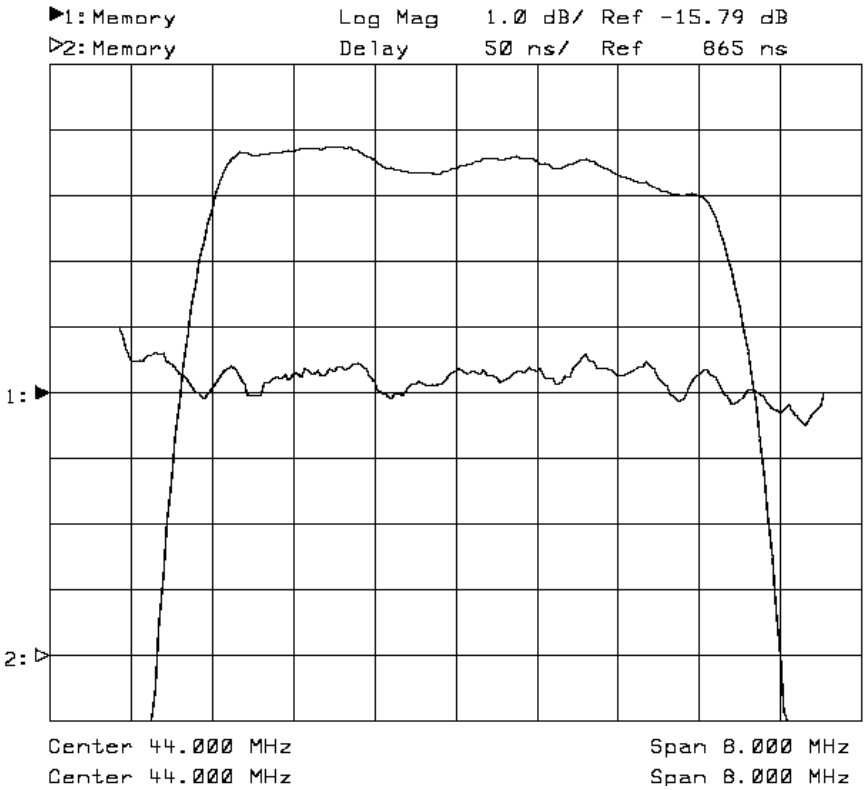
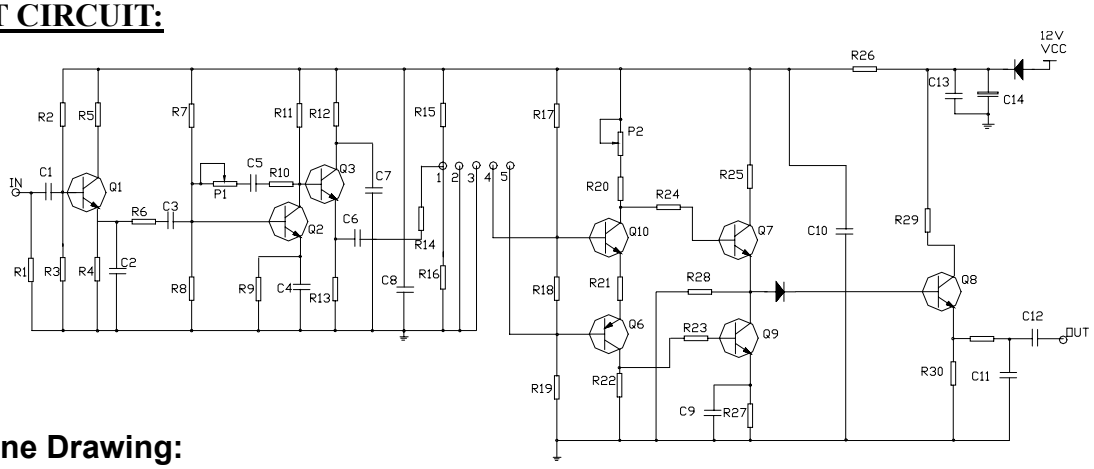


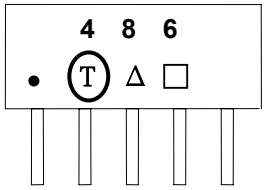
Fig.2 Horizontal : 0.8MHz/Div Vertical: 1dB/Div

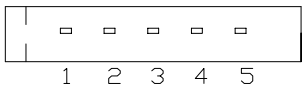
D. TEST CIRCUIT:

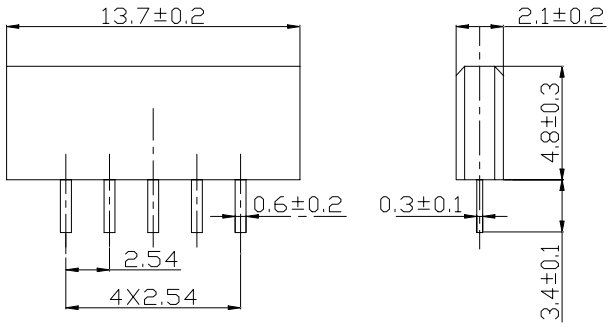


E. Outline Drawing:

Unit: mm







Pin No. Functions

1. Input
2. Input-Ground
3. Chip carrier-Ground
4. Output
5. Output

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

△ : Product / Year Code

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