

TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: 44MHz 5.6MHz BW 13.8x4.9mm Plastic DIP SAW IF Filter

TST Part No.: TB0486A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Kazuma Lee

Approved by: _____ Francis Chen

Date: _____ 06 / 20 / 2011

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.



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

MODEL NO.: TB0486A

REV. NO.4

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	°C	
Storage Temperature Range	T_{stg}	-40~85	°C	

B. Characteristics :

RoHS Compliant
Lead free
Lead-free soldering

1. Electronic Characteristics

Reference temperature: $T_a=25^{\circ}\text{C}$

Electrostatic Sensitive Device

Terminating source impedance $Z_S=50\Omega$

Terminating load impedance $Z_L=2k\Omega//3pF$

2 .Amplitude Characteristics

	MIN.	TYP.	MAX.	
Center frequency f_c 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	42.0	48.0	-	dB
38.08-40.13(38.00-40.05) MHz	38.0	45.0	-	dB
Upper side lobe 48.03-50.33(47.95-50.25) MHz	37.0	45.0	-	dB
50.33-55.08(50.25-55.00) MHz	41.0	50.0	-	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	-	1.5 15.4	-	$K\Omega pF$
Output Impedance		1.3 4.6		$K\Omega pF$
Temperature Coefficient of frequency	-	-72.0	-	ppm/K

C. Frequency Characteristics :

1. S21 Response: (span 20MHz)

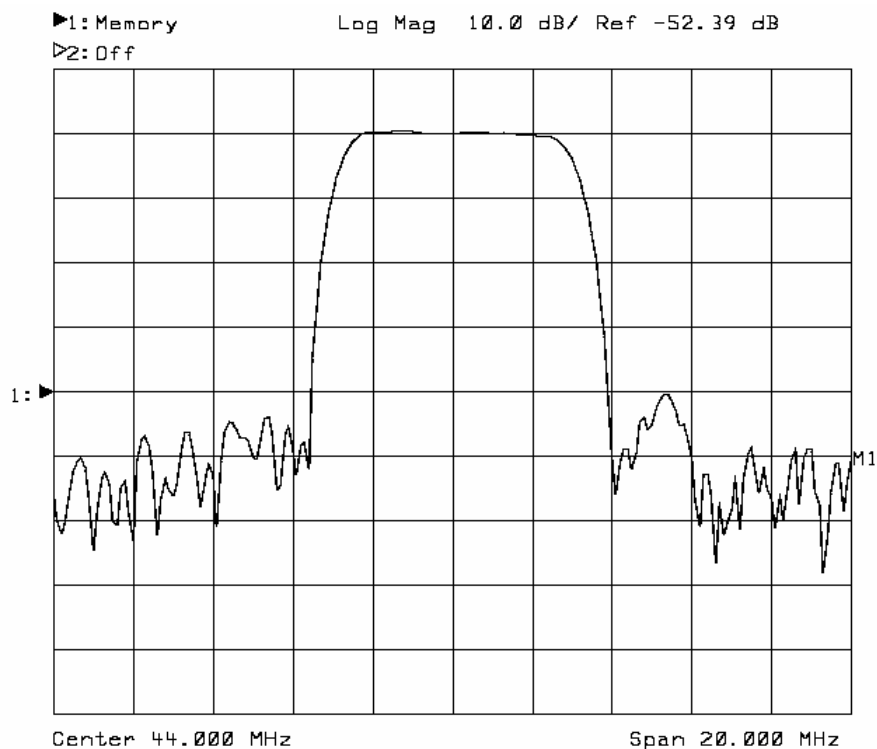


Fig.1 Horizontal : 2MHz/Div Vertical: 10B/Div

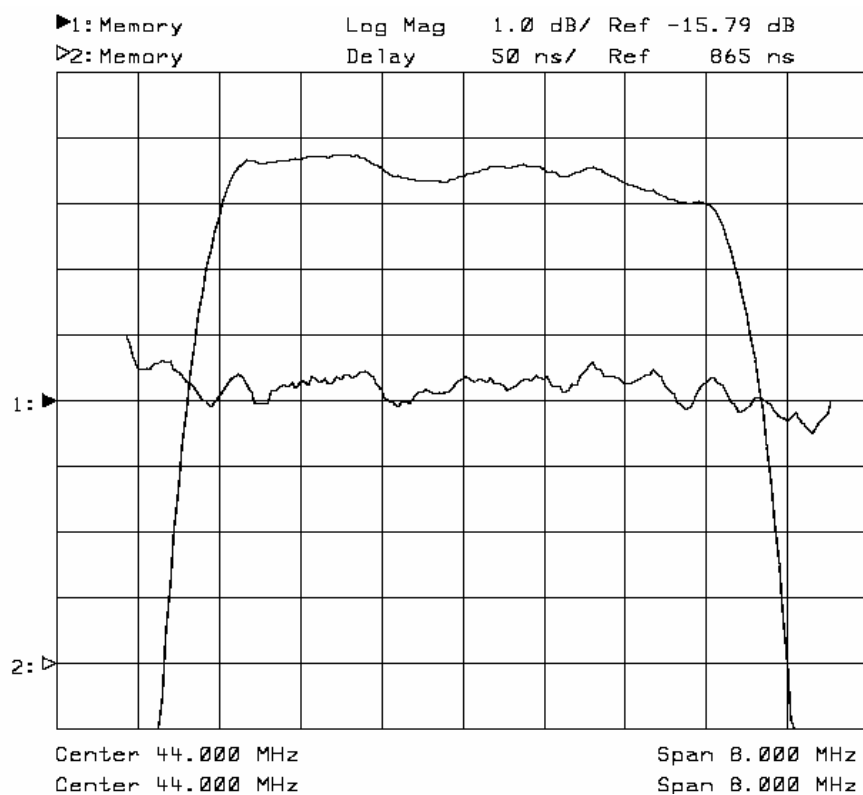
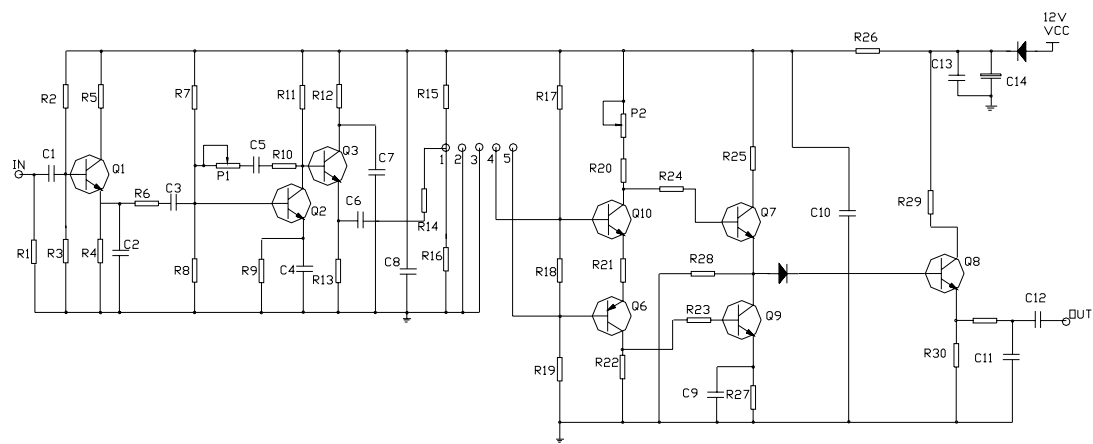
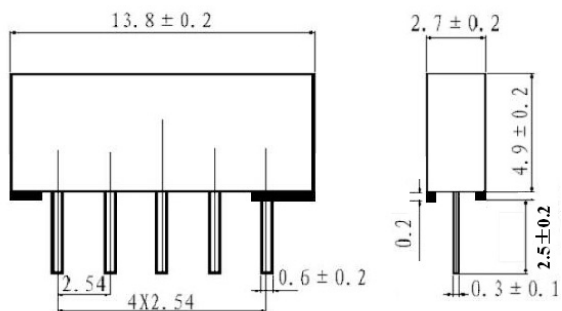
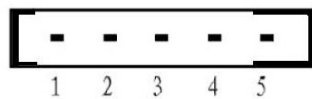
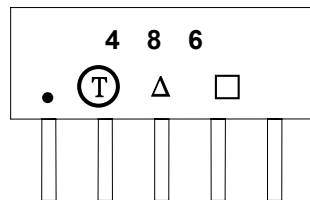


Fig.2 Horizontal : 0.8MHz/Div Vertical: 1dB/Div

D. TEST CIRCUIT:



E. Outline Drawing:



Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>