

TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Issued Date:

Product Name: SAW IF Filter 38.9 & 33.9 MHz

TST Parts No.: TB0808A

Customer Parts No.: _____

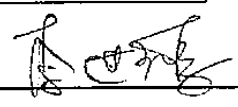
Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Andrew Lee 

Date: _____ 10 / 23 / 2009

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 33.9 & 38.9 MHz for Video Applications

MODEL NO.: TB0808A

REV. NO.:1

A. FEATURES:

1. TV IF Filter with Nyquist slope and sound shelf

Broad sound shelf for sound carriers at 32.40MHz and 33.40 MHz

B. MAXIMUM RATING:

RoHS Compliant
Lead free
Lead-free soldering

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

C. ELECTRICAL CHARACTERISTICS:

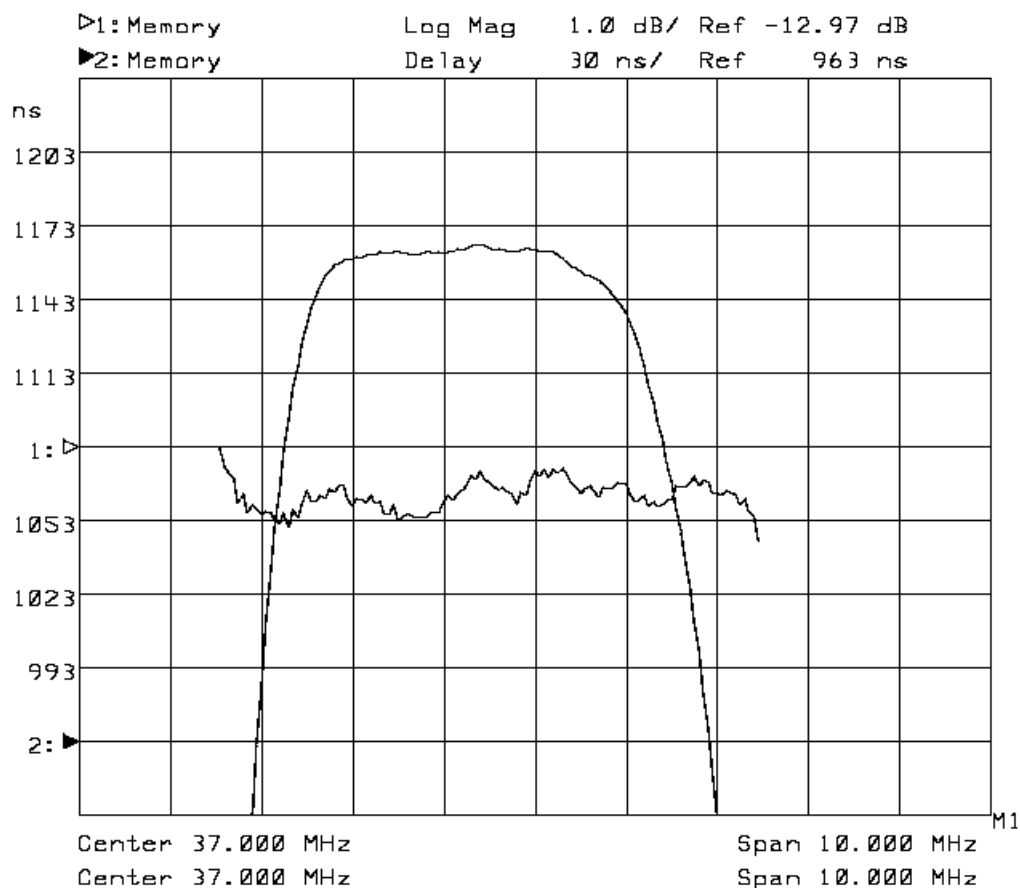
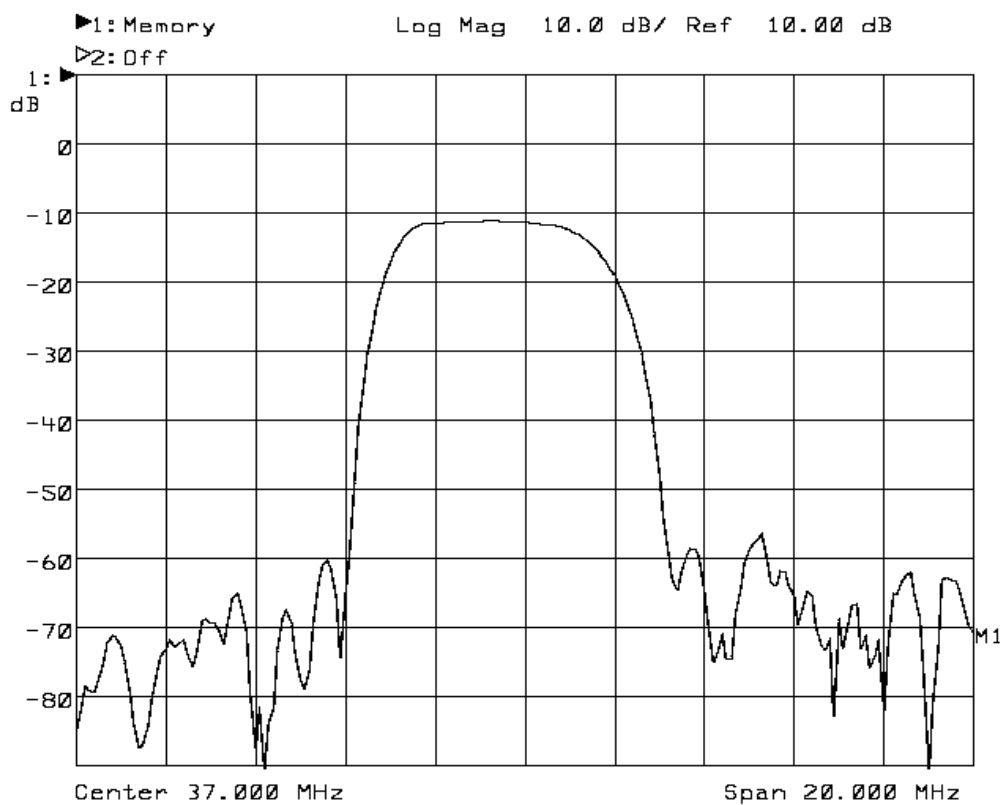
Reference temperature: $T_a=25^{\circ}\text{C}$

Terminating source impedance $Z_S=50\Omega$

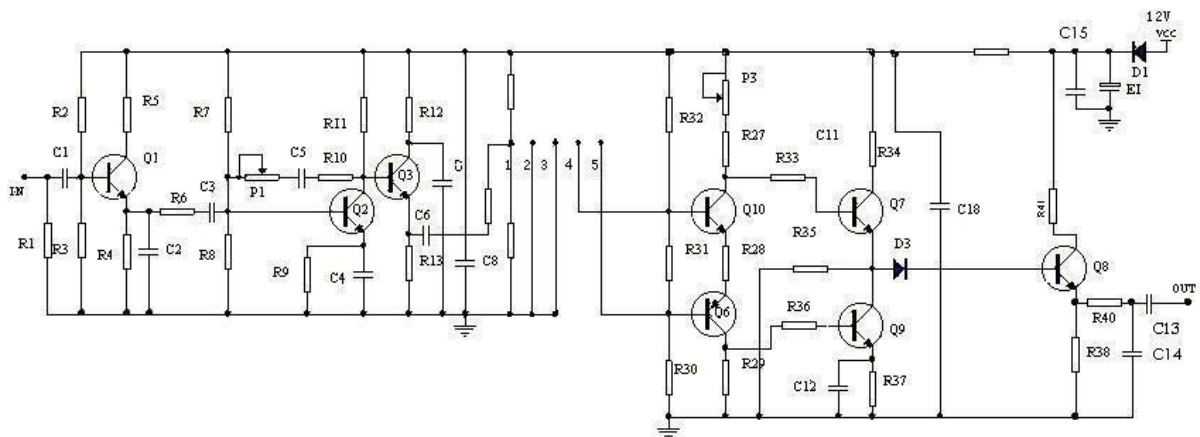
Terminating load impedance $Z_L=2k\Omega//3\text{ pF}$

FREQUENCY(MHz)		VALUE			unit
		Min	Typ.	Max.	
Insertion attenuation	37.40 MHz	-	14.0	16.0	dB
Reference Frequency	37.40 MHz	-	0	-	-
Picture carrier	38.90 MHz	4.5	6.0	7.5	dB
	33.90 MHz	6.0	7.5	9.0	dB
Sound carrier	33.40 MHz	20.0	23.0	-	dB
	32.40 MHz	42.0	53.0	-	dB
Adjacent picture carrier	30.90 MHz	43.0	53.0	-	dB
	31.90 MHz	43.0	53.0	-	dB
	40.15 MHz	33.0	39.0	-	dB
Adjacent sound carrier	40.40 MHz	43.0	52.0	-	dB
	40.90MHz	43.0	52.0	-	dB
	41.40 MHz	42.0	51.0	-	dB
Lower sidelobe:	25.00-31.90 MHz	39.0	49.0	-	dB
Upper sidelobe:	40.40-45.00 MHz	37.0	42.0	-	dB
Reflected wave signal suppression		40.0	50.0	-	dB
Feedthrough signal suppression		46.0	56.0	-	dB
Group delay ripple (p-p)		-	50	-	ns
Impedance at 37.40 MHz					
Input Impedance		1.4 16.9			K Ω pF
Output Impedance		1.6 4.7			K Ω pF
Temperature coefficient	TC	-	-72	-	ppm/K

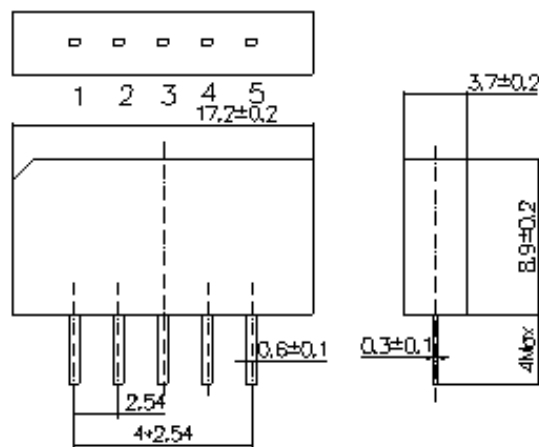
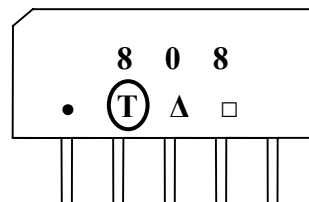
D.FREQUENCY CHARACTERISTICS:



E. TEST CIRCUIT



E. Outline Drawing:



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	<u>B</u>	<u>b</u>