



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 for Audio Applications

TST Parts No.: TB0809A

Customer Parts No.: _____

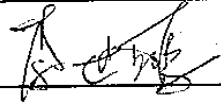
Customer signature required

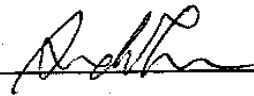
Company: _____

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 Audio Applications

MODEL NO.: TB0809A

REV. NO.:1

A. FEATURES:

1. TV IF Filter for Audio Applications

RoHS Compliant
Lead free
Lead-free soldering

B. MAXIMUM RATING:

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

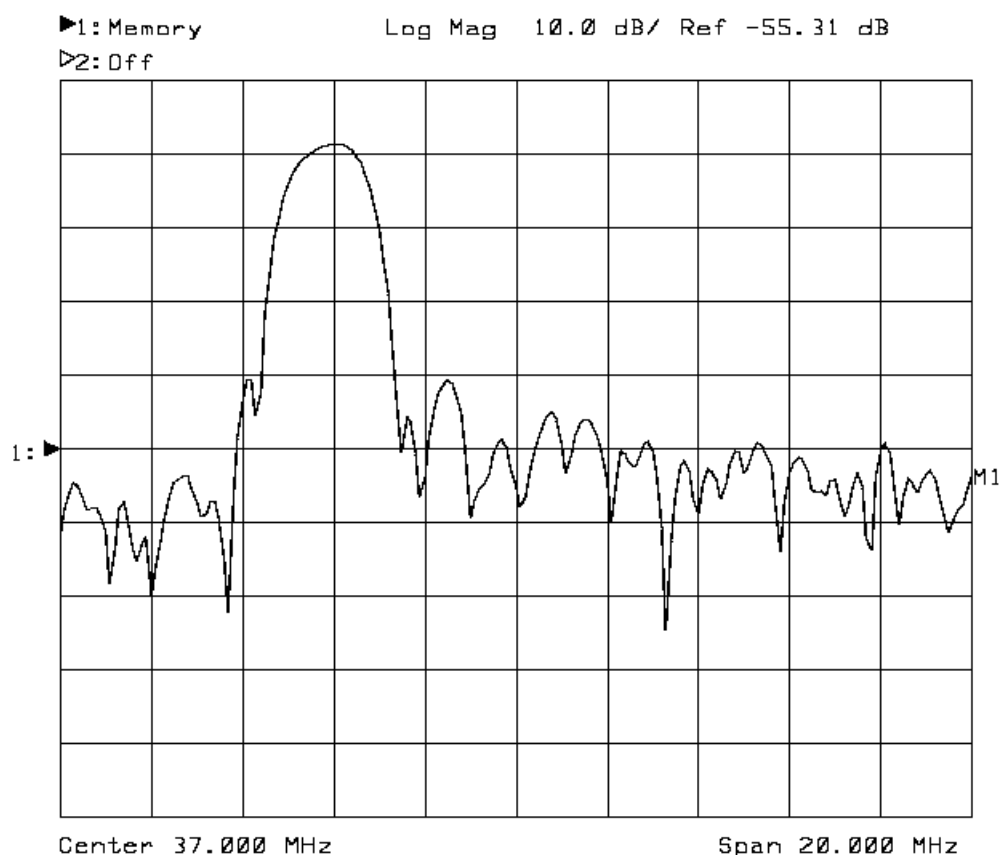
(switching pin 2 connected to ground)

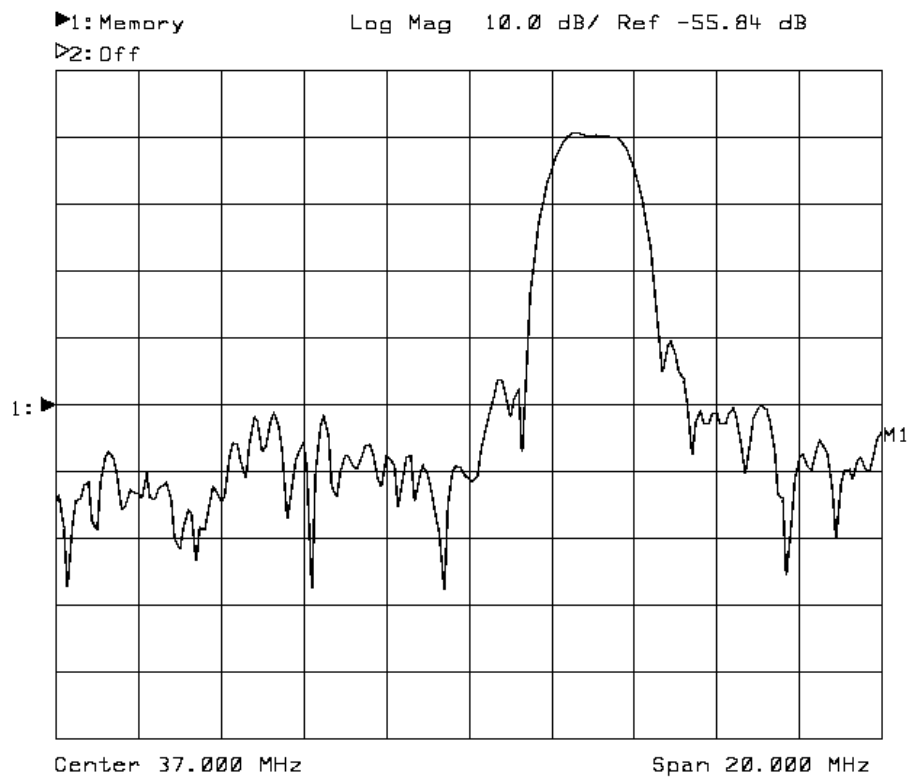
FREQUENCY(MHz)		VALUE			unit
		Min	Typ.	Max.	
Insertion attenuation	40.40 MHz	-	16.3	17.8	dB
Reference Frequency	39.75 MHz	-1.8	-0.3	1.2	dB
	38.40 MHz	25.0	33.0	-	dB
Picture carrier	33.90MHz	37.0	48.0	-	dB
Adjacent picture carrier	41.90 MHz	26.0	40.0	-	dB
Adjacent sound carrier	32.40 MHz	33.0	40.0	-	dB
Lower sidelobe:	25.00-33.90 MHz	33.0	40.0		dB
Upper sidelobe:	41.90-45.00 MHz	26.0	38.0		dB
Reflected wave signal suppression		42.0	50.0	-	dB
Feedthrough signal suppression		50.0	56.0	-	dB
Group delay ripple (p-p)		-	50	-	ns
Temperature coefficient	TC	-	-72	-	ppm/K

(switching input pin 2 connected to input pin 1)

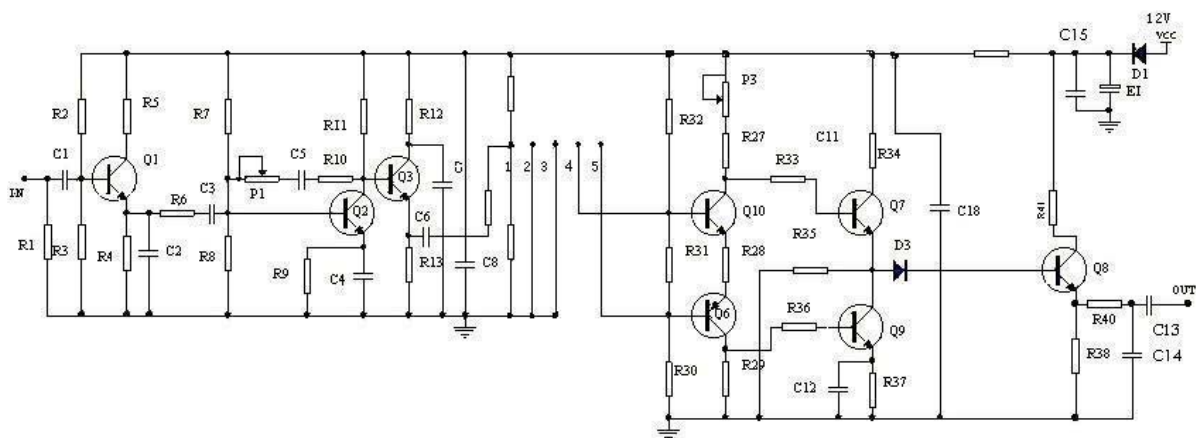
FREQUENCY(MHz)		VALUE			unit
		Min	Typ.	Max.	
Insertion attenuation	33.40 MHz	-	15.8	17.3	dB
Sound carrier B/G-NICAM	33.05 MHz	-2.0	-0.5	1.0	
Sound carrier I	32.90 MHz	-1.9	-0.4	1.1	dB
Sound carrier D/K,L	32.40MHz	-0.4	1.1	2.6	dB
Color carrier	34.47 MHz	23.0	30.0	-	dB
Picture carrier	38.90 MHz	34.0	41.0	-	dB
Adjacent picture carrier	30.90 MHz	37.0	45.0	-	dB
Adjacent sound carrier	40.40 MHz	36.0	45.0	-	dB
	40.90 MHz	33.0	38.0	-	dB
	41.40 MHz	38.0	50.0	-	dB
Lower sidelobe:	25.00-30.90 MHz	36.0	42.0	-	dB
Upper sidelobe:	40.40-45.00 MHz	31.0	38.0	-	dB
Reflected wave signal suppression		42.0	50.0	-	dB
Feedthrough signal suppression		50.0	56.0	-	dB
Group delay ripple (p-p)		-	50	-	ns
Temperature coefficient	TC	-	-72	-	ppm/K

D.FREQUENCY CHARACTERISTICS:

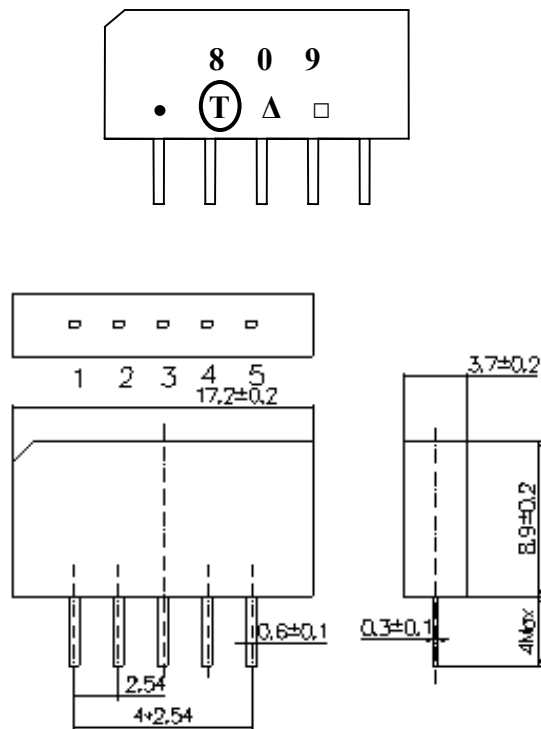




E. TEST CIRCUIT



E. Outline Drawing:



- Pin No. Functions
1. Input
 2. Switching input
 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>