TST

TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Issued Date:

Product Name: SAW IF Filter 33.9 & 38.9 MHz for Video Applications

TST Parts No.: TB0834A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Kazuma Lee _____

Approval by:_____ Francis Chen _____

Date:_____ 12 / 01 / 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.: TB0834A REV. NO.:1

A. FEATURES:

1. TV IF Filter with Nyquist slopes at 33.9MHz and 38.9MHz
2. Broad sound shelf for sound carriers at 32.40MHz and 33.40 MHz

RoHS Compliant
Lead free
Lead-free soldering

B. MAXIMUM RATING:

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

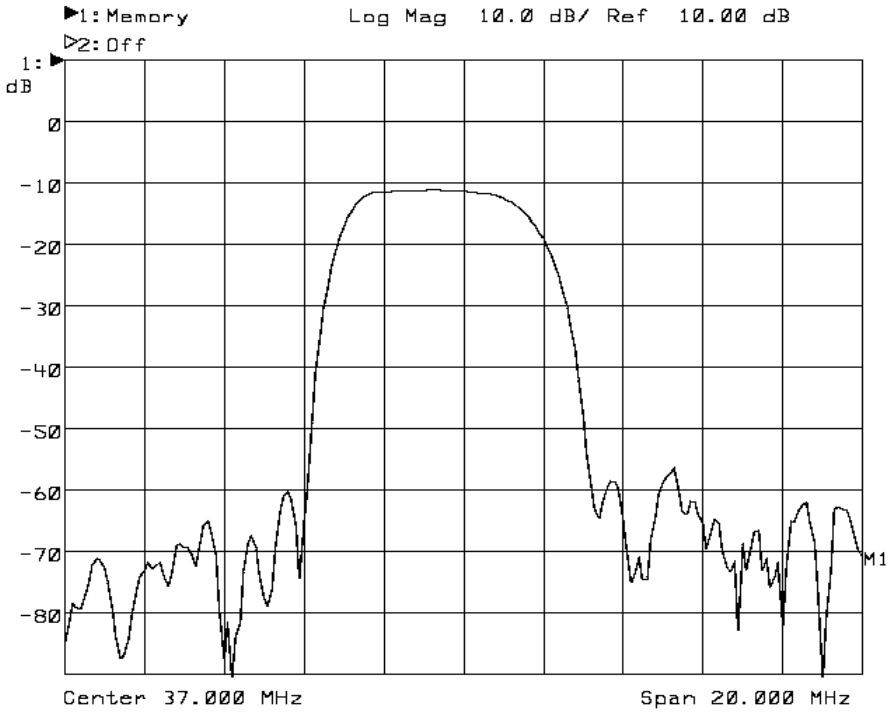
C. ELECTRICAL CHARACTERISTICS:

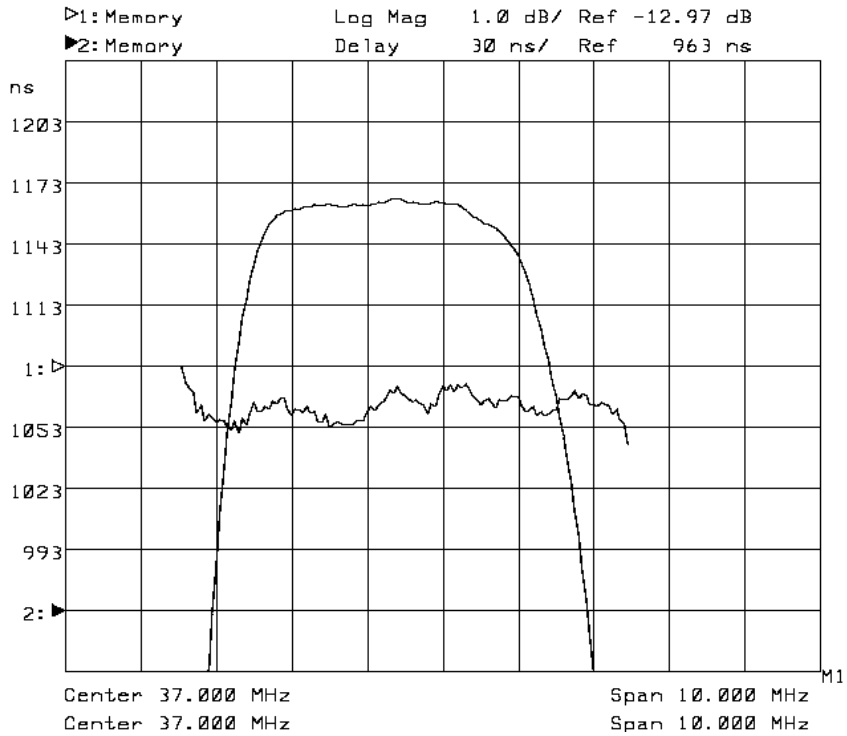
Reference temperature: Ta=25℃
Terminating source impedance Z_S=50Ω
Terminating load impedance Z_L=2kΩ//3 pF

FREQUENCY(MHz)		VALUE			unit
		Min	Typ.	Max.	
Insertion attenuation	37.40 MHz	-	13.5	15.5	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
Color carrier	34.47MHz	-0.5	1.0	2.5	dB
Sound carrier	33.40 MHz	20.0	24.0	-	dB
	32.90 MHz	44.0	51.0	-	dB
	32.40 MHz	42.0	53.0	-	dB
Adjacent picture carrier	30.90 MHz	44.0	53.0	-	dB
	31.90 MHz	44.0	53.0	-	dB
	40.15 MHz	36.0	39.0	-	dB
Adjacent sound carrier	40.40 MHz	44.0	52.0	-	dB
	40.90MHz	43.0	52.0	-	dB
	41.40 MHz	43.0	51.0	-	dB
Lower sidelobe:	25.00-31.90 MHz	42.0	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

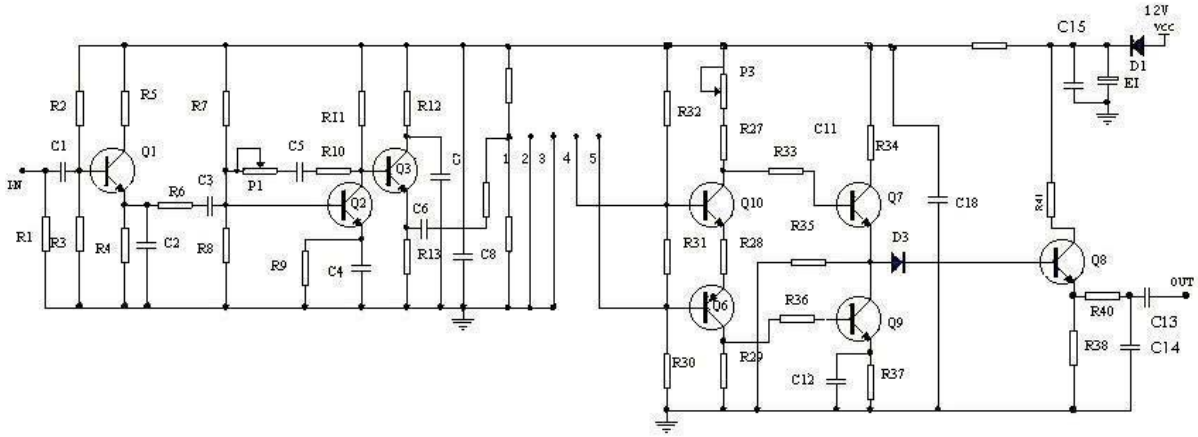
Group delay ripple (p-p)	-	50	-	ns
Impedance at 37.40 MHz Input Impedance Output Impedance	1.3 || 17.2 1.6 || 4.7			 KΩ || pF KΩ || pF
Temperature coefficient TC	-	-72	-	ppm/K

D.FREQUENCY CHARACTERISTICS:

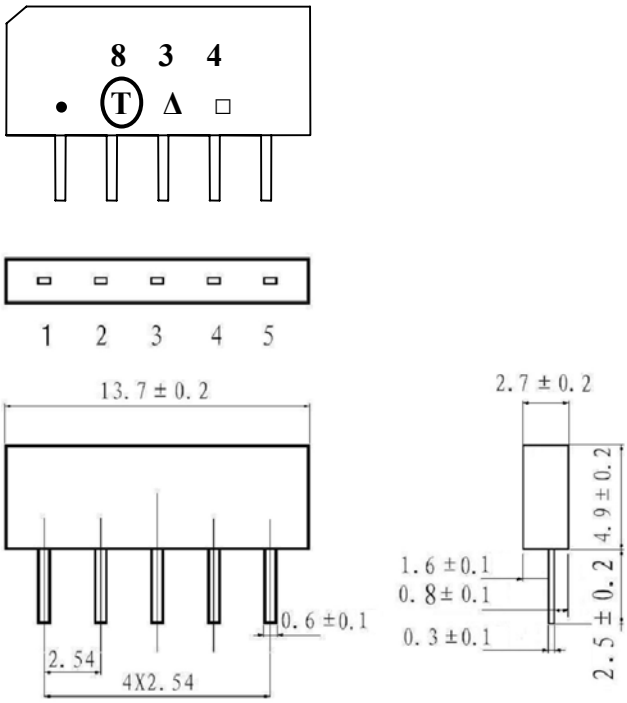




E.TEST CIRCUIT



F. 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	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	B	b