

SURFACE ACOUSTIC WAVE FILTER

1. APPLICATION: TV IF FILTER

2. SYSTEM: D/K, M/N

3. MODEL: VTF73801D

4. ELECTRICAL CHARACTERISTICS

4-1 Electrical Characteristics in D/K Mode (switching input pin 2 connected to ground input 3)

Insertion Loss:	36.50MHz	50	30.5	2dB
Relative Attenuation:				
fp-8	30.00 MHz			-42.0 dB Max.
fp-6.5	31.50 MHz			-35.0 dB Max.
fp-5.5	32.50 MHz			-30.0 dB Max.
fp-4.43	33.57 MHz			-1.7 1.5 dB
fp-1.5	36.50 MHz			0 dB
fp	38.00 MHz			-6.7 1.5 dB
fp+1.5	39.50 MHz			-42.0 dB Max.
Outband Rejection:				
	25.00 MHz to 30.00 MHz			-38.0 dB Max.
	39.50 MHz to 45.00 MHz			-36.0 dB Max.

4-2 Electrical Characteristics in M/N Mode (switching input pin 2 connected to pin 1)

Insertion Loss:	36.50 MHz	50	30.5	2 dB
Relative Attenuation:				
fp-6	32.00 MHz			-40.0 dB Max.
fp-4.5	33.50 MHz			-25.0 Db Max.
fp-3.58	34.42 MHz			-2.0 1.5 dB
fp-1.5	36.50 MHz			0 dB
fp	38.00 MHz			-6.9 1.5 dB
fp+1.5	39.50 MHz			-40.0 dB Max.
Outband Rejection:				
	25.00 MHz to 32.00 MHz			-34.0 dB Max.
	39.50 MHz to 45.00 MHz			-36.0 dB Max.

4-3 Temperature Coefficient of Center Frequency: -75 ppm/ Max.

4-4 Maximum DC voltage: 10V DC.

4-5 Operating Temperature Range: -10 to +70

4-6 Storage Temperature Range: -20 to +80

5. RELIABILITY TEST

5-1 Mechanical Shock

The components shall remain within the electrical specifications after 1000 shocks, acceleration 392 m/s^2 , duration 6 milliseconds.

5-2 Vibration Fatigue

The components shall remain within the electrical specifications after loaded vibration

of 600 rpm to 3300 rpm, amplitude 1.5 mm, x, y, z, direction for 2 hours.

5-3 Terminal Strength

The components shall remain within the electrical specifications after pulled 2 kgs weight for 10 seconds towards an axis of each terminal.

5-4 High Temperature Storage

The components shall remain within the electrical specifications after being kept at the

85 ambient temperature for 96 hours, then kept at room temperature for 2 hours.

5-5 Low Temperature Storage

The components shall remain within the electrical specifications after being kept at the

-25 for 96 hours, then kept at room temperature for 2 hours.

5-6 Humidity Test

The components shall remain within the electrical specifications after being kept at

the condition of ambient temperature 40 , and 90 to 95% RH for 96 hours, then kept at

room temperature and normal humidity for 2 hours.

5-7 Thermal Shock

The components shall remain within the electrical specifications after 10 cycles of Heat-

Cycles-Testing (one cycle: -25 for 20 minutes, then 85 for 20 minutes), then kept at room temperature for 2 hours.

5-8 Solder-heat Resistance

The components shall remain within the electrical specifications after dipped in the solder at 260 for 10 1 seconds, then kept at room temperature for 2 hours. (Terminal must be dipped leaving 1.5 mm from the case.)

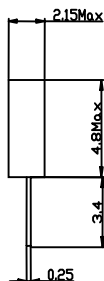
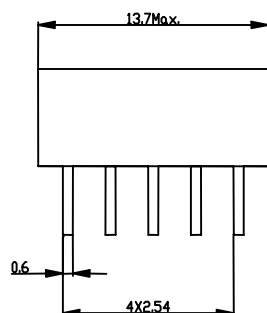
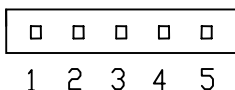
5-9 Solderability

Solderability of terminals shall be kept at more than 90% after dipped in the solder flux

at 235 5 for 2 0.5 seconds.

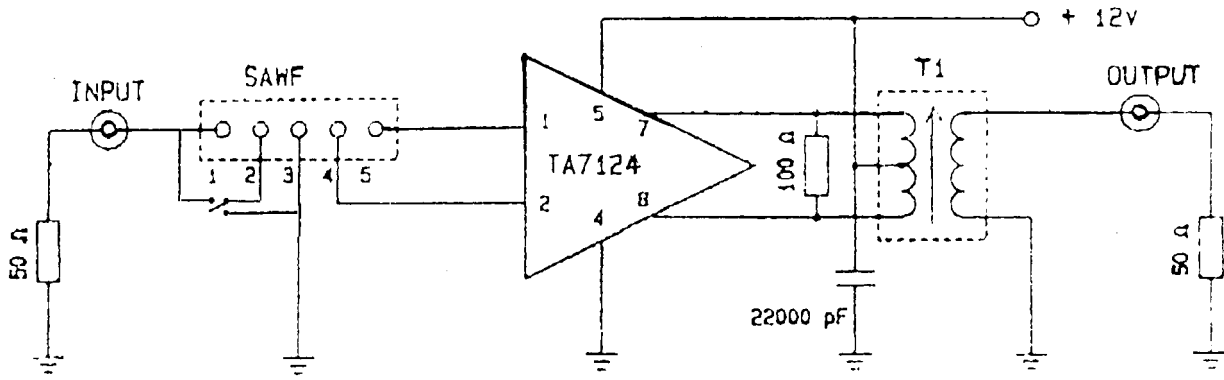
6. PACKAGE DIMENSION

Unit: mm

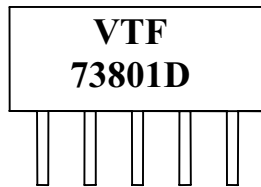


- 1. INPUT
- 2. INPUT-GROUND
- 3. GROUND
- 4. OUTPUT
- 5. OUTPUT

7. MEASUREMENT CIRCUIT



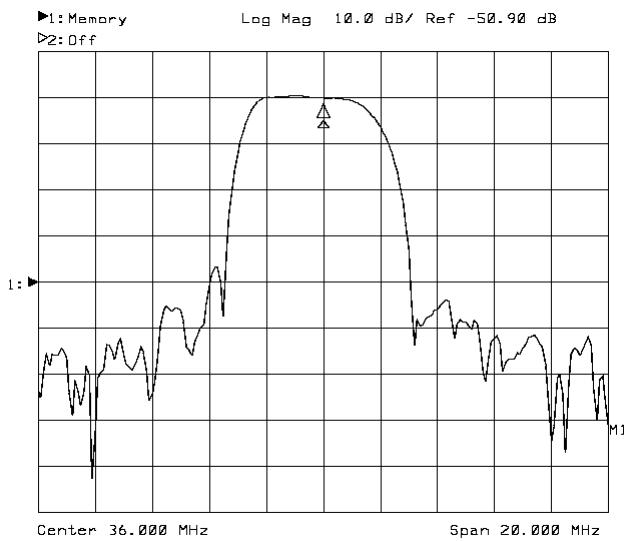
8. MARKING



VTF73801D . Model
1 . Pin 1

9. FREQUENCY RESPONSE

D/K CHANNEL



M/N CHANNEL

