
SURFACE ACOUSTIC WAVE FILTER

1. APPLICATION: IF FILTER FOR AUDIO APPLICATIONS

2. SYSTEM: D/K, B/G, I, M/N

3. MODEL: VTF93802M

4. ELECTRICAL CHARACTERISTICS

4-1 Insertion Loss:		STD 2 dB
4-2 Attenuation:		
fp-8	30.00 MHz	-42.0 dB Max.
fp-6.5	31.50 MHz	0 1.5 dB
fp-6.0	32.00 MHz	0 dB
fp-5.5	32.50 MHz	0 1.5 dB
fp-4.5	33.50 MHz	0 1.5 dB
fp	38.00 MHz	-40.0 dB Max.
fp+1.5	39.50 MHz	-42.0 dB Max.
fp+2.0	40.00 MHz	-40.0 dB Max.
fp+2.5	40.50 MHz	-40.0 dB Max.
4-3 Outband Rejection:		
25.00 to 30.00 MHz		-37.0 dB Max.
38.00 to 45.00 MHz		-38.0 dB Max.
4-4 Temperature Coefficient Of Center Frequency:		-75 ppm/ Max.
4-5 Maximum DC Voltage:		10V DC.
4-6 Operating Temperature Range:		-10 to +70
4-7 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

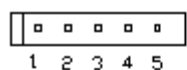
The components shall remain within the electrical specifications after dipped in the solder at 260 for 10 1 seconds, then kept at room temperature for 2 hours. (Terminal must be dipped leaving 1.5 mm from the case.)

5-9 Solderability

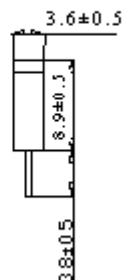
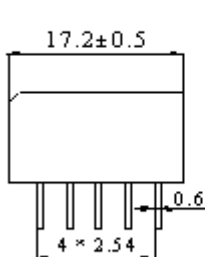
Solderability of terminals shall be kept at more than 90% after dipped in the solder flux

at 235 5 for 2 0.5 seconds.

6. PACKAGE DIMENSION

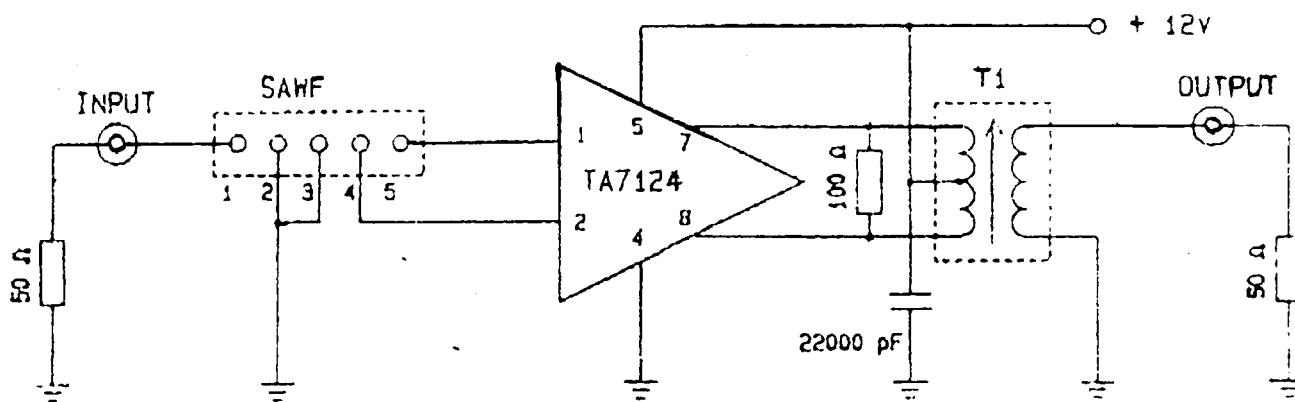


Unit: mm

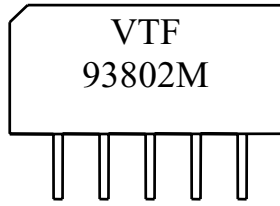


1. INPUT
2. SWITCHING INPUT
3. GROUND
4. OUTPUT
5. OUTPUT

7. MEASUREMENT CIRCUIT



8. MARKING



VTF93802M . Model
1 . Pin 1

9. FREQUENCY RESPONSE

