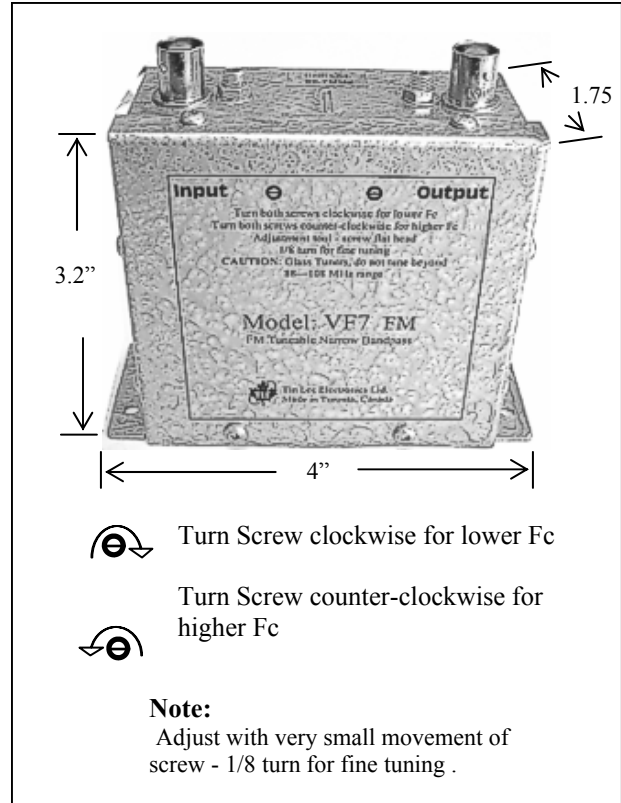




Description and Specifications

Model VF7- (Fc) is a frequency tuneable FM Bandpass Filter. Factory preset at 99MHz. Center frequency Fc, tunable via two trimmers (from 88MHz to 108MHz).

- Narrow Passband: < 1.25 MHz wide
- Passband: user specified FM frequency (Fc)
- Operation bandwidth: 5 to 750 MHz
- Frequency tuneable FM bandpass, factory pre-tuned (99 MHz or user specify).
- Tunable via two screw trimmers (88 to 108MHz)
- Stopband: >20dB at ± 3MHz from Fc
- Connectors: F type, 75 ohms (standard)
BNC, N, 50 ohms or 75 ohms



Bandpass Frequency	Insertion Loss (dB)	Return Loss (dB)	Attenuation (20dB)	-3dB Bandwidth (MHz)
88	3.5	12	±1.5MHz	1.00
99	2.5	20	±3MHz	1.25
108	2.75	12	±2.5MHz	1.25
Attenuation (>40dB)		5 to 80MHz & 118 to 1000MHz		

Bandpass Adjustments

For best results adjust with instrumentation that provides bandpass frequency response. VF7 can be tuned to a higher or lower frequency by adjusting screw trimmers T1 and T2 (see photo). Both resonators are tuned to same Fc for optimal bandpass response.

Bandpass Adjustment with RF Level Meter - Adjust with small flat head screwdriver (e.g., R3324 XCELITE). Mark screw driver shaft with tape and reference the screw position (tape on screwdriver shaft) with respect to marking on the surface of the trap. When making adjustments note original tuning position and amount of adjustment made. Measure for optimal signal level.

Caution: Screw Trimmers are made of glass; do not tune screws beyond the range of the trimmer body - at the max and min. ranges the screw will feel snug.