



Description and Specifications



Model VR7- (Fo) is a frequency-tunable VHF/CATV trap. Seven models are available to cover frequency range from 30 to 500 MHz. Trap frequency (Fo) is factory preset, field tunable via two trimmers.

- Rejection of combined notches > 45 dB at (Fo)
- Rejection of individual notch from 6 to 10dB
- 3dB bandwidth ± 1.5 MHz (Fo < 100 MHz)
- 3dB bandwidth ± 2.0 MHz (Fo < 200 MHz)
- 3dB bandwidth ± 1.5 MHz (Fo 300—500 MHz) *
- Bandwidth (MHz): 5 to 550 / 860 / 1000
- Available in 75 ohms (standard) with F type connectors; optional 50 ohms with BNC connectors (inquire).
- Graph supplied with this unit to indicate trap preset frequency and bandwidth

* Custom models. Inquire.

VR7 (7 models spanning 30-500 MHz)



-  Turn Screw clockwise for lower Fo
-  Turn Screw counter-clockwise for higher Fo

Note:

Adjust with very small movement of screw - 1/8 turn for fine tuning .

Trap Adjustments

For best results adjust traps with instrumentation (notch frequency and attenuation can be viewed). Traps can be tuned to a higher or lower frequency by adjusting screw trimmers T1 and T2 (see photo).

Trap Adjustment without instrumentation - Adjust with small flat head screwdriver (e.g., R3324 XCELITE). Mark screw driver shaft with piece of 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.

Course Trap Adjustments - Tune one trap at a time e.g., tune screw T1 to desired trap frequency for 6-10 dB attenuation (approx.) and note the number of turns that were made, then, T2 to the same position with a similar number of turns - combined traps will provide 45 dB attenuation.

Fine Trap adjustments - To obtain 45 dB attenuation - alternately adjust one trap very slightly (1/8 T) in either direction, then do the same with the other trap. Repeat until required attenuation is obtained at desired trap frequency.

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 very snug.



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Specifications:

VR7-Lo (54 to 88 MHz) Tunable Trap *

Notch Freq. (Fo) Frequency (MHz)	Insertion loss (dB) 5 to 870 MHz	Attenuation at Fo (dB)	-3dB Bandwidth (MHz)
54	1.5	45	1.25 +/- Fo
76	1.5	45	1.25 +/- Fo
88	1.5	45	1.50 +/- Fo

* Standard 75 ohms (F-connectors). Option 50 ohms (BNC connectors)

VR7-Hi (174 to 217 MHz) Tunable Trap *

Notch Freq. (Fo) Frequency (MHz)	Insertion loss (dB) 5 to 870 MHz	Attenuation at Fo (dB)	-3dB Bandwidth (MHz)
174	1.0	45	1.5 +/- Fo
190	1.0	45	1.5 +/- Fo
217	1.0	45	2.0 +/- Fo

* Standard 75 ohms (F-connectors). Option 50 ohms (BNC connectors)