

VF-4

55 MHz to 880 MHz Preselector

- Improves Measurement Accuracy of Distortion Tests
- Compatible with All Spectrum Analyzers and Meters
- 55 to 880 MHz Operation
- Field-Portable

Improves Measurement Accuracy

The Trilithic VF-4™ tunable filter provides the preselection needed for the accurate measurement of composite triple beat, cross modulation, and other spurious signals in a working cable television system. Measurements made without the use of a filter are prone to error because spectrum analyzers and signal level meters are susceptible to overload in the presence of many carriers. Input overload causes instruments to generate spurious signals which interfere with measurements and which may be misinterpreted as problems in the CATV system.

A VF-4 filter placed between the test instrument and the system test point blocks all unnecessary signals, passing only the carrier to be analyzed to the instrument's input. By eliminating input overload, a VF-4 can improve an instrument's reliable measurement range by as much as 30 dB.

Fiber Applications

VF-4 filters can also be used to extend the range and accuracy of fiber optic measurements. Composite second order and system noise tests require

filters with the best possible selectivity and shape factors. VF-4 filters easily meet these stringent requirements.

Field Portable

A VF-4 filter bank includes four independent, mechanically tunable filters, each covering 2:1 frequency ranges between 55 and 880 MHz. Each filter is provided with its own input and output connectors, and its own tuning dial. The filters are mounted in a rugged, portable field case with a hinged dust cover to protect the front panel controls from weather and impact damage. The VF-4 is impervious to power overload, being able to withstand inputs as great as 60 Watts.



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SPECIFICATIONS

Frequency Range	55 to 880 MHz, in 4 bands
Shape Factor	$\frac{30 \text{ dB BW}}{3 \text{ dB BW}} = 2.2/1$ maximum
Insertion Loss	1.5 to 3.5 dB, depending on band
In-Channel VSWR	1.5:1, maximum

AM 1000 Preamplifier

Frequency Range	50 to 1000 MHz
Nominal Gain	20 dB @ 600 MHz 17 dB @ 750 MHz 16 dB @ 1000 MHz
Impedance	75 Ω (nominal)
Noise Figure	5 dB
Power	Internal NiCd battery, 4 hours of operation per charge

INCLUDES THE FOLLOWING:

55 to 880 MHz tunable preselector
P/N 2010537006

OPTIONAL ACCESSORIES:

CC-12 carrying case
P/N 2130605000

RELATED PRODUCTS:

AM-1000/tricorder battery
P/N 0090033000

AM-1000RC preamplifier
P/N 2070760001

AM-1000 bench-type preamplifier
P/N 2070761000

75 Ω female BNC connector
P/N 2310081000

75 Ω female F-type connector
P/N 2310084000

T7-T12 filters
P/N 2070948000