

## VF-H2500-8D/VF-H4000-8x/VF-H8000-8x High Band VHF Band Pass Filters

#### **Features**

- Operating frequency range 174 to 230 MHz
- · Fully band tunable
- · Cross coupled filter design
- Can be configured for 6, 7, or 8 MHz bandwidths
- · Available for analog or digital masks
- Power handling capability of up to 8 kilowatts
- Temperature compensated design



Alternate input and output connectors are optionally available

The VF-H2500-8D/VF-H4000/VF-H8000-8x is a compact, eight section, high band VHF band pass filter that is adjustable for operating frequency, bandwidth, and mask slope. The filter can be configured to meet the requirements any standard digital or analog mask. This is a temperature compensated filter it maintains emissions compliance and an excellent input match from "cold start" and with variations in ambient temperature.

All ERI filter and RF component products are manufactured and precision tested for optimum electrical and mechanical performance.

### **Specifications**

Application ATSC 1.0 or ATSC 3.0 Band: High Band VHF (174 to 216 MHz) RF Channels: 7 to 13 Channel Bandwidth 6 MHz Passband (Extended) ±2.69 MHz Poles 6 VF-H2500-8D VF-H4000-8x VF-H8000-8x Model Number Power Handling (average) 2.5 kW 4.0 kW 8.0 kW 7dB Crest Factor ATSC1.0 (10 dB for 3.0) Forced Air Convection Standard Connectors 7-16 DIN, female x=2 1-5/8-inch or x=3 3-1/8-inch EIA flanged

#### **Electrical Specifications**

#### **Mechanical Specifications**

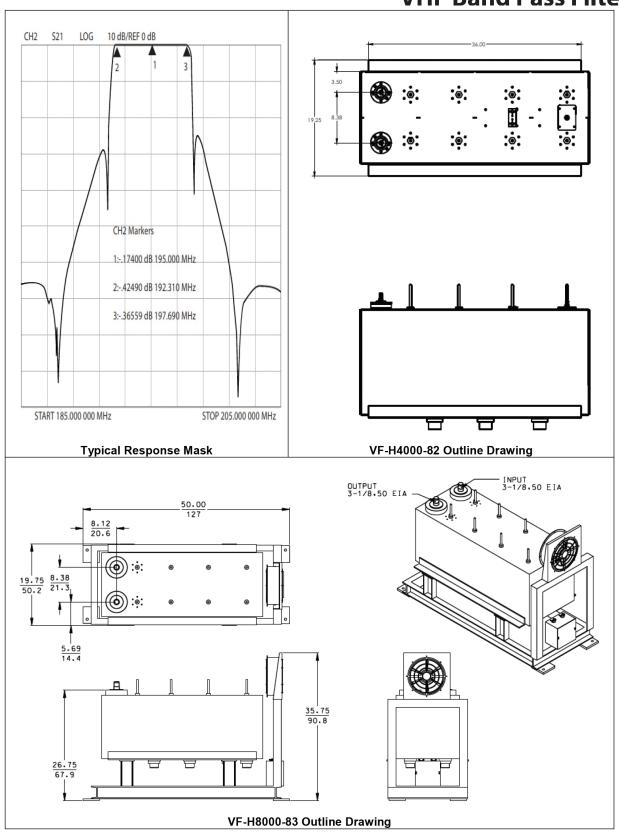
Length	29.2 in	(742 mm)
With Forced Air Cooling	41.8 in	(1060 mm)
Width	20.4 in	(518 mm)
Height	23.5 in	(597 mm)
With Forced Air Cooling	32.5 in	(826 mm)
Weight	29.0 lbm	(13.2 kg)
With Forced Air Cooling	32.0 lbm	(14.5 kg)

Notes: (1) Available in 6, 7, or 8 MHz bandwidth configurations. (2) Typical specification; Custom specifications available on request. (3) Power Ratings dependent on tuning of filter. (4) Maximum Power Rating based on forced air cooling.

Electronics Research, Inc. • 7777 Gardner Road • Chandler, IN 47610-9219 • USA +1812925-6000 (tel) • +1812925-4030 (fax)



# VF-H2500-8D/VF-H4000-8x/VF-H8000-8x High Band VHF Band Pass Filters



Notes: (1) Available in 6, 7, or 8 MHz bandwidth configurations. (2) Typical specification; Custom specifications available on request. (3) Power Ratings dependent on tuning of filter.

Electronics Research, Inc. • 7777 Gardner Road • Chandler, IN 47610-9219 • USA | +1 812 925-6000 (tel) • +1 812 925-4030 (fax)