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Model VX8PFFA

Programmable Filter
Selectable Gain
VXI Board

8-Channel

Description

Frequency Devices Model VX8PFFA, is a single width, C-sized Filter/Amplifier, VXI signal conditioning module. Each instrument offers 8-channels of 4- or 8-pole, frequency programmable filters with jumper select signal gain of 1, 10, 100, 1,000. Filters achieve a -100 dB attenuation floor, sufficient for 16-bit A/D's in any one of five standard factory-set tuning ranges or 8-bit custom ranges from 1.0 Hz to 102.4 kHz. Each channel includes differential or single-ended input and buffered output with channel-to-channel crosstalk typically below -96 dB.

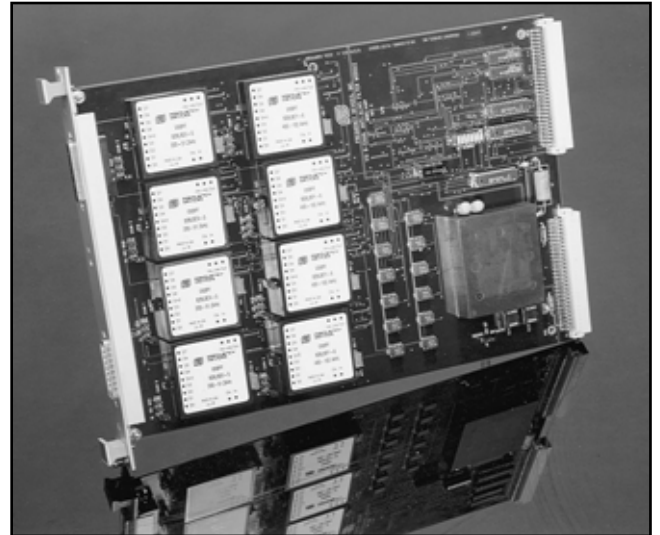
Users can select from high-pass or low-pass filters or can externally cascade high- and low-pass filters into band-pass configurations. Conforming to system-integration standards of VXIplug & play System Alliance, the VX8PFFA will integrate into any WIN (VTL 3.0) and GWIN (VTL 3.0) VXI test or data-acquisition system.

Features/Benefits:

- Simultaneous sampling over 8 channels provides a low cost, versatile and convenient way to control filtering and gain scaling.
- Solves precision performance problems of design engineers, system integrators and OEM's.
- Broad range of transfer characteristics and corner frequencies are offered to meet a wide range of applications.
- Low harmonic distortion and wide signal-to-noise ratio to 16-bit resolution.

Signal conditioning applications include:

- Engine test and simulation
- Automotive test cells
- Aerospace, navigation & sonar
- Laboratory R & D
- Acoustic and vibration analysis
- Satellite & Telecommunications
- Automatic test equipment (ATE)
- Industrial process control



LOW-PASS FILTER OPTIONS

4-pole	824
8-pole	828

HIGH-PASS FILTER OPTIONS

4-pole	824
8-pole	828

BAND-PASS FILTER OPTIONS

2-pole pair	824BP
4-pole pair	828BP

BAND-REJECT (NOTCH) FILTER OPTIONS

4-pole pair	828BR
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Ordering Information

Channels 1, 2, 3, & 4 _____ Channels 5, 6, 7, & 8

VX8PFFA-828H8E-2/828L8E-6

Note: See 824 and 828 specification sheets for available filter models and tuning range



Specifications

(@ 25°C and rated Power Input)

Analog Input

- | | |
|--------------------------|--|
| 1. Number of Channels | 8-channels/"C" size VXI slot |
| 2. Input Range | +/-10V pk. linear |
| 3. Maximum Input | 50V pk. without damage |
| 4. Impedance | Single-ended, jumper selectable - 1 MΩ//47 pF
Differential, jumper selectable - 1 MΩ//47 pF |
| 5. Common Mode Rejection | 70 dB min. @ 60 Hz |

Analog Output

- | | |
|------------------------------|---|
| 6. Impedance | 10Ω max., buffered output |
| 7. Linear Operating Range | +/-10V pk. |
| 8. Maximum Current | +/-2 mA |
| 9. Offset Voltage | 2 mV typ. trimmable to zero |
| 10. Short Circuit Protection | Yes |
| 11. Cross Talk | -90 dB typ. @ 100 kHz
-96 dB typ. @ 10 kHz |

Filter Characteristics

- 12. See 824 and 828 Series specifications
- 13. External 8-bit CMOS latches hold frequency data
- 14. Filter bypass mode

Gain

- | | |
|-----------------------------|-------------------|
| 15. Jumper Selectable Steps | 1, 10, 100, 1,000 |
| 16. Accuracy | +/-2% |

VXI Compliance

- 17. A16, D16, Slave A16, Register based, Rev. 1.3, supports Dynamic Configuration

Connectors

- 18. Two, 25-pin "D" type for analog I/O

Power Required

- | | |
|-----------------|---|
| 19. +5V Supply | Both supplies fused on board |
| 20. +24V Supply | 900 mA typ., 1.2 A max.
450 mA typ., 600 mA max. |

Environmental and Mechanical

- | | |
|---------------------------------|---------------------------|
| 21. Operating Temperature Range | 0°C to +70°C |
| 22. Storage Temperature Range | -25°C to +85°C |
| 23. Dimensions | "C" size VXI, single slot |
| 24. Weight | 5 LBs., (2.27 kg.) |

Instrument Drivers - VXI plug & play Compliant

- 25. WIN (VTL 3.0) - Lab Windows/CVI, DLL
- 26. GWIN (VTL 3.0) - Labview