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Find the *Frequency Devices VM8PF-8-D828* at our website: ***Click HERE***

FREQUENCY DEVICES™, INC.

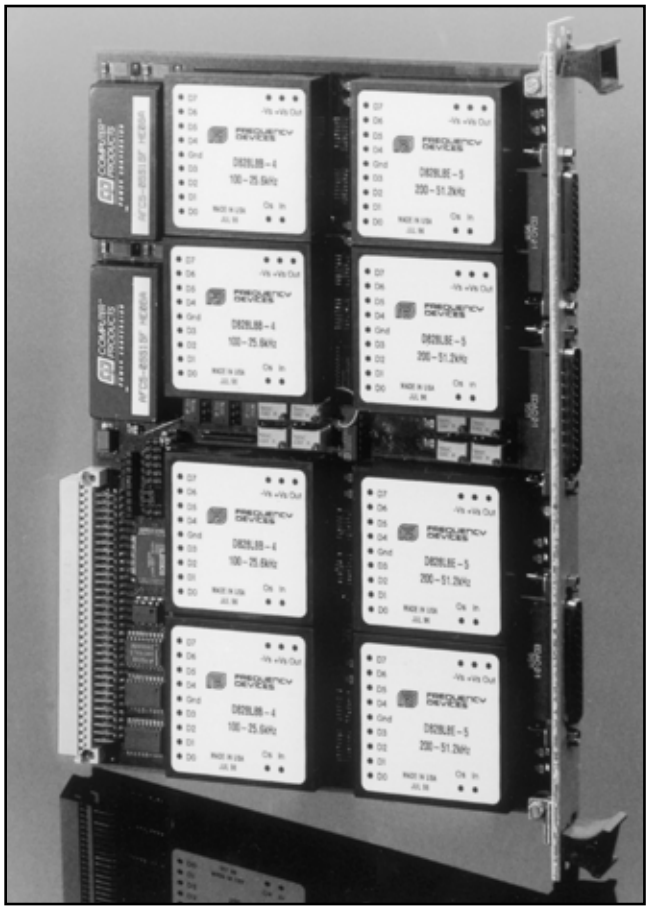
Model VM8PF

8-Channel

Programmable VME Filter Board

Description

Frequency Devices' Model VM8PF comprises a family of VMEbus filter boards offering eight channels of software programmable, precision linear analog filtering in a single width B-size (6U) VME form factor. VM8PF boards receive up to eight high level differential signal inputs through a shielded front panel connector and provide signal buffering and software programmable filtering with unity gain for each channel. A second connector is wired in parallel with the input connector to facilitate filter bypass. VM8PF boards may be configured with 4- or 8-pole filters in any one of five standard factory set tuning ranges from 1.0 Hz to 102.4 kHz, and with high- or low-pass transfer functions allowing user to externally cascade filters into band-pass configurations. The boards conform to VME revision C.1 as an A16/D16 Slave.



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	D824
8-pole	D828

HIGH-PASS FILTER OPTIONS

4-pole	D824
8-pole	D828

BAND-PASS FILTER OPTIONS

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

BAND-REJECT (NOTCH) FILTER OPTIONS

4-pole pair	828BR

Ordering Information

Channels
4 or **8**

Filter Type and Corner Frequency
D824 or **D828**

VM8PF-8-D828H8E-2

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e-mail: sales@freqdev.com • Web Address: http://www.freqdev.com
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FREQUENCY DEVICES™, INC.

Model VM8PF

Specifications

(@ 25°C and rated Power Input)

Programmable
VME Filter Board

8 CHANNEL PROGRAMMABLE FILTER BOARD

Analog Input

1. Impedance	1 MΩ
2. Input Range	+/-10V pk. linear
3. Maximum Input	+/-15V
4. Common Mode Rejection	70 dB typ., 60dB min. DC to 1 kHz

Analog Output

5. Impedance	1 Ω typ., 10 Ω max.
6. Linear Operating Range	+/-10V pk.
7. Channel to Channel Crosstalk	-95 dB typ. DC to 100 kHz
8. Maximum Current	+/-2mA
9. Offset Voltage	+/-2mV typ. trimmable to zero
10. Short Circuit Protection	Short to Ground

Filter Characteristics

11. See 824 and 828 Series specifications
12. External 8-bit CMOS latches hold frequency data

Gain

13. Low-pass	X1, +/-1%
High-pass	X1, +/-2%

VMEbus

14. Interface	A16/D16, D08(EO) Slave only, VME Spec. Rev. C.1

Power Supply

15. From VME Backplane	+5V, 3.5A max.

Environmental

16. Operating	0°C to +70°C
17. Storage	-25°C to +85°C
18. Humidity	0-95% non-condensing

Mechanical

19. Card Size	VMEbus 6U single slot 9.17 x 6.3 inches, (233 x 160 mm)
20. No. of Input Channels	8 Differential - DC coupled
21. No. of Output Channels	8 Single Ended - DC coupled
22. Mating Connectors	25-pin “D”, Quantity 3
23. Weight	3 lbs., (1.36 kg.)

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