



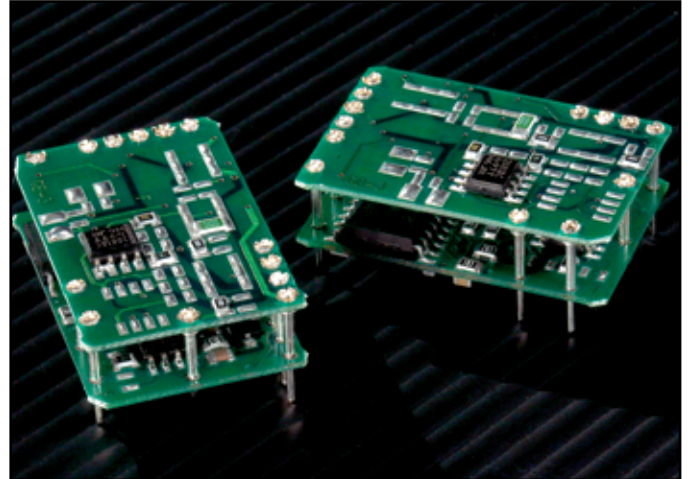
## for FDI VME Boards

## Programmable Amplifiers

### Description

The PGA5 Series programmable amplifiers are digitally controlled gain modules that were designed for Frequency Devices' multi-channel VME board products to condition DC-coupled wide-band signals. They are programmed by an 8-bit serial data stream for gain selection using clock, data and strobe inputs.

Other standard performance features include differential input, single ended output, 5V interface logic and low noise/distortion. Available options include AC coupled input (all models) and/or differential output (VM32PA) only.



### Features/Benefits:

- Phase match of  $\pm 1.0^\circ$  for the PGA5-100 and  $\pm 2.0^\circ$  for the PGA5-2.0 with Gain accuracy of  $\pm 0.1$  dB provides precision performance solutions to design engineers, system integrators and OEM's.
- Offers a low cost, versatile and convenient way to provide up to 32 channels of precision amplification in a single width B-size (6U) VME form factor.

### Available Amplifier Options:

- VM32PA-PGA5-100** -12 dB to +60 dB in 6 dB steps  
for frequencies to 100 kHz
- VM32PA2.0-PGA5-2.0** -12 dB to +36 dB in 6 dB steps  
for frequencies to 2.0 MHz

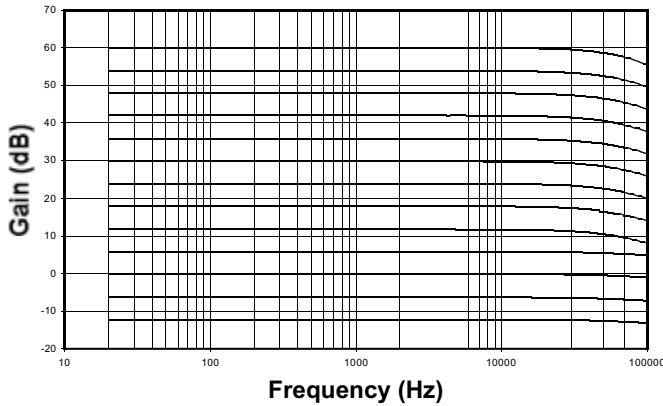


for FDI VME Boards

Programmable Amplifiers

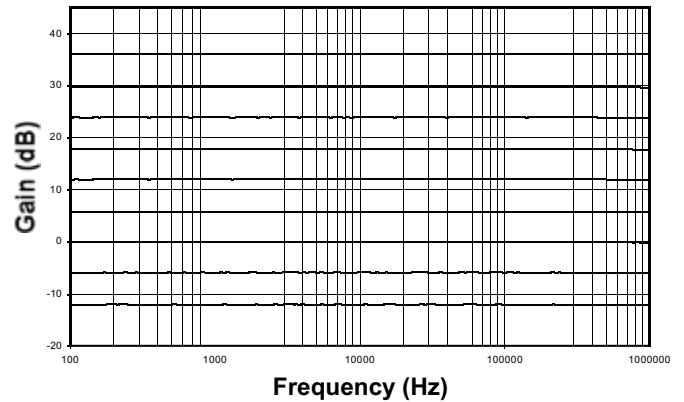
PGA5-100

Frequency Response

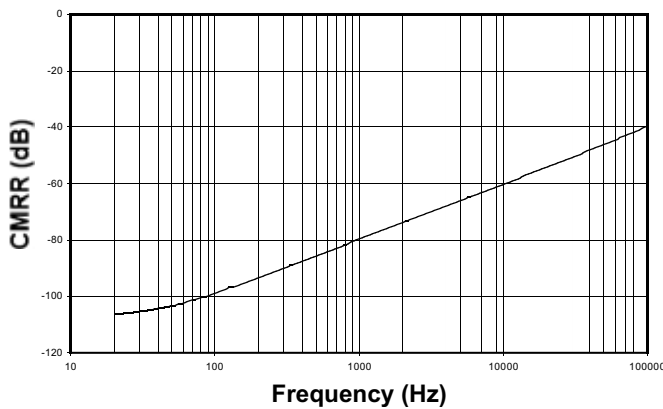


PGA5-2.0

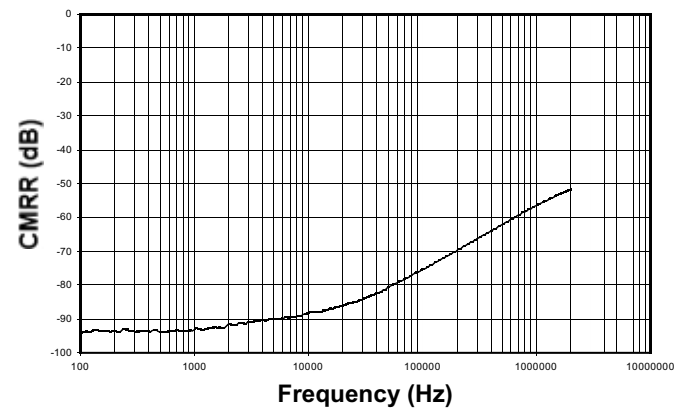
Frequency Response



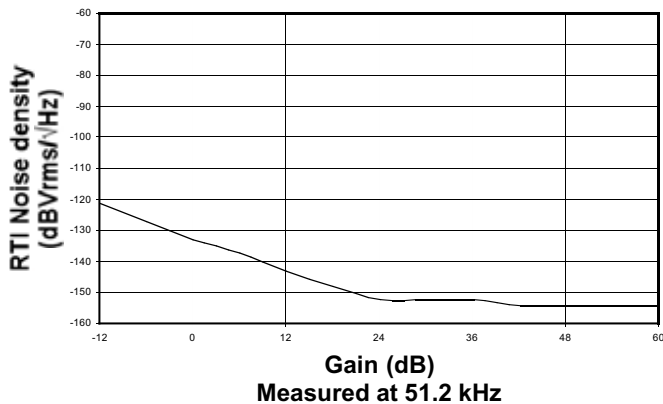
Common Mode Rejection Ratio



Common Mode Rejection Ratio



Noise



Noise

