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Find the *Curtiss-Wright / Pentland Systems MPV990* at our website: ***Click HERE***

MPV990 - 4 Channel Anti-Aliasing Filter

The MPV990 is a four-channel anti-aliasing (low-pass) filter board mechanically compatible with the VMEbus. Anti-aliasing filters are frequently required in high accuracy data systems in order to reduce the distortion effect of out of band frequencies mixing with the sampling frequency to produce in-band frequency components. The MPV990 incorporates 4 independent anti-aliasing filter circuits. The inputs are connected via 4 BNC connectors and the outputs via a 37 way 'D' type connector. The analog input section features a programmable gain instrumentation amplifier, the gain of which can be set to any value between 0.1 and 10,000. The filter section features a low pass filter with a definable cut-off frequency in the range 2Hz to 20kHz. The roll-off is 100dB/octave with a minimum stop band attenuation of 60dB. The output section is compatible with Pentland Systems' existing range of VMEbus analog input boards, such as the MPV908 series. For applications in which increased output drive capability from the filter is required, a user selected amplifier may be added.

Features

- Four channels with independent 3-stage low pass filter circuits
- Selectable cut-off frequencies
- Incorporates precision input instrumentation amplifiers
- Double Eurocard format suitable for use in VMEbus systems
- +5V supply from VMEbus P1 connector
- Short circuit protection on outputs
- Provision for customer specific output amplifiers

Specification (at 25癈)

Input Amplifier

- Input channels: 4
- Gain ranges: 0.1 to 10,000 (resistor programmable)
- Input voltage: ﷿V (max) single-ended or differential
- Input impedance: >1M Ohm
- Filter:-
  Frequency cut-off range 2Hz to 20kHz
  Cut-off frequency (Fc) ﷿ of chosen value
  Stopband frequency (Fs) 1.75Fc
  Gain Error 0﷿25dB
  Passband ripple:-
  2Hz<10kHz. <0.15dB
  10kHz<20kHz <0.5dB
  Stopband attenuation: >=60dB
  Roll-off 100dB/octave

- Output (no amplifier):-

  Output current +4mA (max with resistive load)
  Output impedance <5 Ohms

- Signal/noise ratio: >75dB
- Total Harmonic Distortion: <0.01%
- Operating temperature: 0癈 to +60癈
- Power Requirement: ﷿ ﷿ @ 1.5A (supplied from P1 connector)
- Input connectors: 4 x BNC sockets
- Output connector: 37 pin 'D' type

Ordering Information

MPV990: Anti-Aliasing Board

Navigation: to Product Summary or Pentland Homepage



E-mail requests for further information to: ja@pentland.co.uk
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