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Find the *DynamicSignals / Kinetic Systems V252-ZB11* at our website: *Click HERE*

16-channel, 8-pole Analog Filter

General Description

The V252 is a single-width, C-size VXI module that contains sixteen channels of fixed-frequency, low-pass filtering. Each differential input signal is received by an instrumentation amplifier which provides a high common mode rejection ratio. The V252-ZA11 and -ZC11 provide filtering at unity gain, while pre-filter gains of 1, 10, and 100, and post-filter gains of 0.5, 1, 2, 5, and 10 are provided on the V252-ZB11 and -ZD11 options. The selection of gain is programmable on a channel-by-channel basis.

Eight-pole, low-pass Bessel, Butterworth, Elliptic, or Constant-delay filters may be selected for each channel. This module is capable of providing filter cutoff frequencies from 100 Hz to 100 kHz. Cutoff frequencies are established by plug-in filter headers. These headers must be ordered separately. Standard headers provide for nominal cutoff frequencies of 100, 200 and 500 Hz, and 1, 2, 5, 10, 20, 50, and 100 kHz. Please consult the factory regarding the availability of other cutoff frequencies by special order.

This filter module is also available with an optional sample/hold amplifier per channel. This option provides for simultaneous sampling of all channels using the VXI trigger lines. Input and output signals appear at the V252 front panel on 50-position high-density connectors. The differential input signals are brought in from one of these connectors, and the filtered output pairs use a second connector. The output signals are also available as four multiplexed channels on the VXI local bus, using KSC's MUX-bus protocol.

Calibration inputs are provided via a BNC connector on the front panel, a mainframe reference from the local bus, or from an on-board reference. The calibration signals may be selectively placed on any channel. A Calibration Register is used to select the desired channel.

Block Diagram

Specifications

Ordering Information

Please note that a complete filter module consists of one V252-Zx11 main board plus sixteen P708-wxyz series filter headers.

Model V252-ZA11
16-ch, 8-pole Analog Filter
Model V252-ZB11
16-ch, 8-pole Analog Filter w/Programmable Gain
Model V252-ZC11
16-ch, 8-pole Analog Filter w/Simultaneous Sampling
Model V252-ZD11
16-ch, 8-pole Analog Filter w/Programmable Gain and Simultaneous Sampling

Filter Plug-Ins

Model P708-wxyz
Filter Plug-in (sixteen required
- w: Filter type: B = Bessel, T = Butterworth, D = Constant Delay, E = Elliptic
- x: First significant digit of cutoff frequency.
- y: Second significant digit of cutoff frequency.
- z: Cutoff frequency multiplier.
  - 0 = x 1
  - 1 = x 10
  - 2 = x 100
  - 3 = x 1k
  - 4 = x 10k
  - 5 = x 100k
  - 6 = x 1M
  - J = x 0.1

- K = x 0.01

Note:

Cutoff frequencies may range from 100 Hz to 100 kHz. The standard cutoff frequencies are 100 Hz, 200 Hz, 500 Hz, 1 kHz, 2 kHz, 5 kHz, 10 kHz, 20 kHz, 50 kHz and 100 kHz. Please consult the factory for additional cutoff frequency options.

Back to the Table of Contents

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