

New!

## Model 6606



# 8-Channel Anti-Aliasing Filter

### General Information

The Model 6606 is an 8-channel anti-aliasing, lowpass filter board for VMEbus. It can be used with Pentek A/D converter boards such as the Model 6106 and 6109 and provides a cutoff frequency of 800 kHz or 8 MHz with option -002. The Model 6606 accepts up to eight independent analog signals, via coaxial, front panel SMA connectors. The board delivers the filtered output signals to a 37-pin front-panel "D" connector that is pin-to-pin compatible with the A/D input connectors of the Model 6106 and 6109.

### Applications

When the Model 6606 is combined with either the 6106 or 6109, the board set provides a high-performance 8-channel A/D converter system for VMEbus data acquisition. When used with any of Pentek's DSP processor boards, these systems are ideal for sonar, ultrasound imaging, and real-time process control applications.

### Specifications

**Input type:** single-ended, 50 ohms impedance, front panel SMA

**Input full scale voltage:** +/- 1.5 V

**Filter type:** LC, 9-pole lowpass Chebycheff

**Cutoff frequency ( $f_c$ ):** 800 kHz;

with option 002: 8 MHz

contact Pentek for other frequencies

**Stopband attenuation:** -60 dB min. @  $2f_c$

**Passband ripple:** +/- 2.5 dB max.

**Output type:** single-ended, 50 ohm impedance, 37-pin front panel "D" connector, pin-to-pin compatible with Model 6106 and 6109 A/D converter boards

**Output full scale voltage:** +/- 1.5 V

**Total harmonic distortion:** -75 dB max.

**Power:** 0.5 A max. @ +12 V,

0.5 A max. @ -12 V from the VMEbus

### Features

- Provides alias protection at 800 kHz or 8 MHz with option -002
- Individual SMA front panel connectors provide flexible input configuration
- Pin-to-pin compatibility with Model 6106 and 6109 A/D converter boards

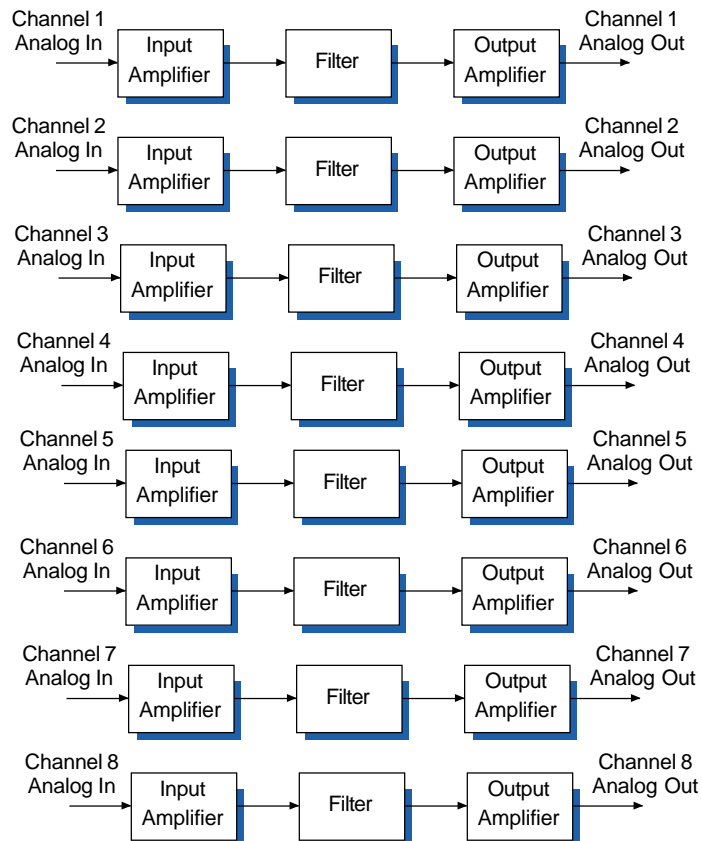
### Ordering Information

Model	Description
6606	8-Channel Anti-Aliasing Filter

#### Option:

-002 8 MHz cutoff frequency

### Block Diagram, Model 6606



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