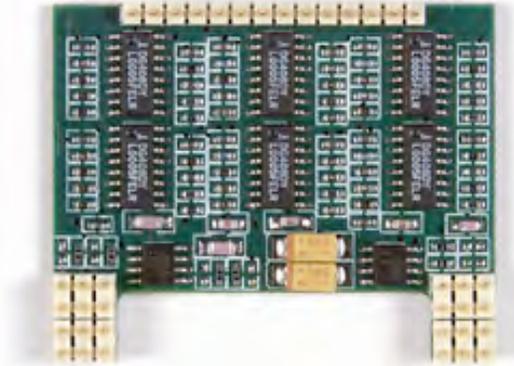




## AM102 Anti-aliasing Filter



The AM102 is a programmable anti-aliasing filter designed for use with C&H's analog input M-Modules, specifically the MA200. The AM102 utilizes a three stage Sallen-Key design in a butterworth configuration to provide a maximally flat band-pass response. The butterworth response is ideal for instrumentation applications that require minimum deviation throughout the band-pass. The 6-pole filter has a sharp knee at the cutoff frequency, followed by a roll off rate of 120 dB per decade. The AM102 can be configured to eight different cutoff frequencies

### Specifications

**Filter type:**

6<sup>th</sup> order butterworth

**I/O Connector:**

Two 12 pin and one 14 pin headers to match M-Module

**Passband ripple:**

up to  $0.5 \times f_c$  < 0.5 dB  
up to  $0.7 \times f_c$  < 0.7 dB

**Temperature:**

Operating 0°C to 50°C  
Storage -40°C to 70°C  
Humidity <95% w/o condensation

**Stopband attenuation:**

at  $2 \times f_c$  > 20 dB

**Attenuation rate:** 120 dB/decade

**Power:**

±12V provided by M-Module

**DC offset :** < 20 mV

**Programmable Cut-off**

**Frequencies:**

48 KHz, 32 KHz, 24 KHz, 16 KHz,  
2.4 KHz, 1.6 KHz, 240 Hz, and  
160 Hz

### Applications

- Acquisition of transient signals
- Real-time data compression
- General A/D Conversion

### Ordering Information

11027980-0001

### Additional Information

See the MA200 User Manual for more information.