



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:
6th order butterworth

I/O Connector:
Two 12 pin and one 14 pin headers to match M-Module

Passband ripple:
up to 0.5 x f_c < 0.5 dB
up to 0.7 x 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 x 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.