

# FIXED FILTER MODULES

## High Order Frequency Filter

AM series offer a cost effective alternative in make or buy decision both in prototype and production. It is a low cost, semi-customized filter modules. It implements virtually any kind of filter applications. Standard features are stock and ready to deliver in 48 hours.



### Features include:

#### ☐ CUSTOMER SPECIFIED FREQUENCY

Your choice of -3 dB Frequency.  
Customer modifications available.  
No additional charge.

#### ☐ COMPACT SIZES

1.25"L x 0.80"W x 0.40"H & 2.05"L x 0.80"W x 0.40"H  
2.45"L x 0.77"W x 0.40"H.

#### ☐ RESPONSE CHOICES

Butterworth, Bessel, Chebyshev,  
Elliptic, & Linear Phase Elliptic.

#### ☐ HIGH ORDER HIGH ATTENUATION

Implement filter orders from 4th  
up to 24th order filter.  
Attenuation greater than 80 dB @  $1.1 F_0$  (-3 dB)

#### ☐ SUPPORT ALL FILTER FUNCTIONS

Lowpass, Highpass, Bandpass, & Bandreject

#### ☐ IDEAL FUNCTION BLOCK

Low output / High input impedance.  
Impedance matching available.

#### ☐ STABLE OUTPUT

Unity gain output, Amplification available

#### ☐ COMPENSATED DC OFFSET

Internal DC offset < 2 mV.  
External adjustable to 0.0.

#### ☐ BUILT-IN DECOUPLING

Internal power supply decoupling.

#### ☐ SINGLE / DUAL POWER SUPPLY

Single Supply : 15.0 V & GND.  
Dual Supply : +/- 15.0 V & GND.

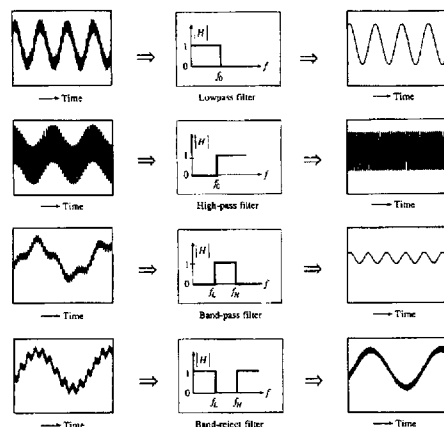
#### ☐ LOW POWER CONSUMPTION

1 mA of supply current per 4th order.

## Applications and Ratings

### APPLICATIONS

- Anti-aliasing Filter
- Equalizers
- Differentiator
- Frequency Separator
- Integrator
- D/A Post Filter
- Band-limit Amplifier
- Video processing
- Phase correction



### ABSOLUTE MAXIMUM RATING

Supply Voltage	$\pm 15$ V to $\pm 5$ V
Input Voltage	$\pm 12$ V
Output Swing	$\pm 12$ V (2k load)
Dynamic Range	> 90 dB
Operating Temp.	
commercial	0° C to 70° C
industrial	- 25° C to 85° C
military	- 55° C to 125° C
Storage Temp.	- 65° C to 150° C
Cut-Off Range	0.01 Hz to 10 MHz

PIN NO.	FUNCTION
1	Ground & Common of Supply
2	Filter Input
3	V+ Supply
4*	External DC Adjust
5*	Filter Output
6*	No Connection
7	V-Supply
8	No Connection

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