

Precision Filters, Amplifiers, and Oscillators from Frequency Devices

Frequency Devices was founded in 1968 to fill the need in the marketplace for prepackaged precision electronic active filters, oscillators, and amplifiers.

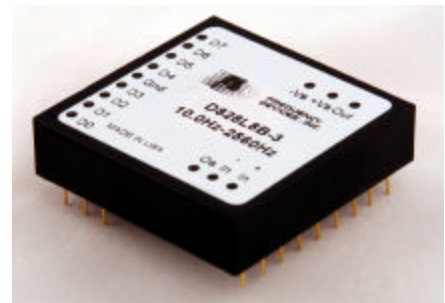


Precision Low-Pass or High-Pass Fixed Frequency Filters

We have several different versions of small filters with frequency stability as good as $\pm 1\%$, low noise, excellent amplitude accuracy, with fixed frequencies that range from 0.01 Hz up to 1 MHz. They are available in two-pole to eight-pole versions with many different functions such as Butterworth, Bessel, etc. These fully self-contained units require no external components or adjustments.

Digitally Programmable Low-Pass or High-Pass Filters

Our Digitally Programmable filters can be programmed to change the filter corner frequency over a 256 to 1 frequency range. They have excellent frequency stability and frequency ranges from 0.1 Hz up to 1.28 MHz. They are available in four-pole or eight-pole versions with many different functions such as Butterworth, Bessel, etc.



Interference Eliminating Band-Pass and Band-Reject Filters

FDI sells either fixed frequency or frequency programmable band-pass or band-reject filters. These filters are available in two-pole pair or four pole-pair versions and are used to eliminate interference. They are available in center frequencies from 1 Hz to 100 kHz and in Qs of 1, 2, 5, and 10. Tunable versions are also available.

Digitally Programmable Wideband Amplifiers

We have a series of Amplifiers with either fixed gain or programmable gain. Gains can range from -12 dB to +60 dB and the amplifiers have differential inputs and can have single ended or differential outputs. Either AC or DC coupling is available. These Amplifiers are used to condition signals and have a full power band width of 100 kHz and are usable beyond that frequency.



Low Distortion Oscillators

These Oscillators are available fixed frequency or with programmable frequencies and with single or dual outputs. The dual output oscillator is available with in phase or quadrature (90 degree) outputs in frequencies from 100 Hz to 100 kHz. Distortion (THD) can be as good as < -100 dB depending on frequency and oscillator used.

Research, Design, and Product Development Test Equipment

These units are precision filters that can be used in the lab or production environment. They are frequency programmable from 0.1 Hz to 300 kHz in low-pass or high-pass and in functions such as Butterworth, Bessel, etc. They are all AC powered (some can be used with batteries) and some units are rack mountable.



The 90IP series Tunable Filters

The 90IP Instrumentation Platform is a four slot chassis with controller that can hold up to 8 different 8 pole filters. It may be used as a bench-top instrument or in rack-mount systems. Each 90IP chassis has its own controller card and display along with space for up to 4 slot cards with 2 filters on each card. The filters can be controlled using the front panel or by GPIB or RS-232 communication. The 90IP is tunable from 0.1 Hz to 300 kHz, gain can be adjusted from 0 to 80 db, and it is also available as a DC powered unit to eliminate ground loop problems. Up to 32 of

90IPs may be daisy chained and addressed from a PC interface to meet the needs of high channel count applications.

The 950 Series Tunable Filter

Frequency Devices' Model 950 instruments furnish the user with an 8-pole low-pass or high-pass filter that is tunable by front panel controls. The controls allow the user to select a corner frequency between 10 Hz and 50 kHz with 6 steps from each of two selectable ranges. This unit has differential or single ended input, ± 2 % frequency stability, and Total Harmonic Distortion of less than 90 dB.



The 900 Series Tunable Filter

Frequency Devices' Model 900CT (AC powered) & 900BT (Internal Battery Operated) instruments are single channel; 8-pole low-pass or high-pass front panel tunable filter instruments. The controls allow the user to select a corner frequency between 0.1 Hz and 49.9 kHz with a resolution of 1:499 for each of the four selectable ranges. This unit also has differential or single ended input, ± 2 % frequency stability, and Total Harmonic Distortion of less than 90 dB.



If you don't see what you need please contact us or check out our web page as we have other products and we also will design and build to your specifications.



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