



1.0 Hz to 100 kHz  
Fixed Frequency

32 Pin DIP  
8-Pole Filters

## Description

The D78 and DP78 Series of low-power, fixed-frequency, linear active filters are high performance, 8-pole filters in a compact package. These Butterworth and Bessel low-pass and Butterworth high-pass filters (D78 only) combine linear active filter design with the space savings of a 32-pin dual in-line package (DIP). Each model comes factory tuned to a user-specified corner frequency between 1 Hz and 100 kHz (DP78, 1 Hz to 5kHz). These fully self-contained units require no external components or adjustments and operate with dynamic input voltage range from non-critical  $\pm 5V$  to  $\pm 18V$  power supplies.

## Features/Benefits:

- Low cost solution for low frequency signal conditioning
- Compact DIP design minimizes board space requirements
- Plug-in ready-to-use, reducing engineering design and manufacturing time
- Factory tuned, no external clocks or adjustments needed saving time and labor of other discrete assembly solutions
- Low harmonic distortion and wide signal-to-noise ratio to 12 bit resolution

## Applications

- Anti-alias filtering
- Vibration & shock analysis
- Automatic test equipment
- Aerospace, navigation and sonar
- Communication systems
- Medical electronics
- Sound and vibration testing
- Noise elimination
- Process control



## Available Low-Pass Models:

<b>D78L8B</b>	8-pole Butterworth . . . . .	.2
<b>DP78L8B</b>	8-pole Butterworth (Low Power) . . . . .	.2
<b>D78L8L</b>	8-pole Bessel . . . . .	.2
<b>DP78L8L</b>	8-pole Bessel (Low Power) . . . . .	.2

## Available High-Pass Models:

<b>D78H8B</b>	8-pole Butterworth . . . . .	.2
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## General Specifications:

Pin-out/package data & ordering information . . . . .	.3
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