


**Active Filter Single Continuous Time Low Pass/Band Pass 8th Order  
150kHz 24-Pin PDIP N**

<b>Manufacturer:</b>	<a href="#">Maxim Integrated</a>
<b>Package/Case:</b>	DIP24
<b>Product Type:</b>	Active Filter
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

The MAX274 and MAX275 are continuous-time active filters consisting of independent cascadable 2nd-order sections. Each section can implement any all-pole bandpass or lowpass filter response, such as Butterworth, Bessel, Chebyshev, and is programmed by four external resistors. The MAX274/MAX275 provide lower noise than switched-capacitor filters, as well as superior dynamic performance—both due to the continuous-time design. Since continuous-time filters do not require a clock, aliased and clock noise are eliminated with the MAX274/MAX275. The MAX274 comprises of four 2nd-order sections, permitting 8th-order filters to be realized. Center frequencies range up to 150kHz, and are accurate to within  $\pm 1\%$  over the full operating temperature range. Total harmonic distortion (THD) is typically better than -86dB. The MAX275 comprises of two 2nd-order sections, permitting 4th-order filters to be realized. Center frequencies range up to 300kHz, and are accurate to within  $\pm 0.9\%$  over the full operating temperature range. Total harmonic distortion (THD) is typically better than -86dB. Both filters operate from a single +5V supply or from dual  $\pm 5V$  supplies.

## Key Features

Continuous-Time Filter - No Clock, No Clock Noise

Implement Butterworth, Chebyshev, Bessel and Other Filter Responses

Lowpass, Bandpass Outputs

Operate from a Single +5V Supply or Dual  $\pm 5V$  Supplies

Design Software Available

MAX274 Evaluation Kit Available

8th-Order-Four 2nd-Order Sections (MAX274)

4th-Order-Two 2nd-Order Sections (MAX275)

Center-Frequency Range:

150kHz for MAX274

300kHz for MAX275

Low Noise:

Center-Frequency Accurate Over Temp:

within  $\pm 1\%$  for MAX274

within  $\pm 0.9\%$  for MAX275

## Application

Audio/Sonar/Avionics Frequency Filtering

DAC Output-Smoothing Filters

Low-Distortion Anti-Aliasing Filters

Modems

Vibration Analysis

## Recommended For You

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### MAX293CPA

Maxim Integrated

DIP8

### MAX291ESA+

Maxim Integrated

SOP-8

### MAX7400CSA+

Maxim Integrated

SOIC(N)

### MAX295EPA+

Maxim Integrated

PDIP8

### MAX7409EUA+

Maxim Integrated

MSOP8

### MAX7427CUA

Maxim Integrated

MSOP8

### MAX7400ESA+

Maxim Integrated

SOP-8

### MAX293CPA+

Maxim Integrated

DIP8

### MAX7410EUA+

Maxim Integrated

MSOP8

### MAX280CPA+

Maxim Integrated

DIP-8

### MAX274AENG+

Maxim Integrated

DIP

### MAX274AEWI+

Maxim Integrated

SOP28

**MAX267BCNG+**

Maxim Integrated

Correctoriginal

**MAX296ESA**

Maxim Integrated

SOP-8

**MAX7415CUA+**

Maxim Integrated

SMDSMT