
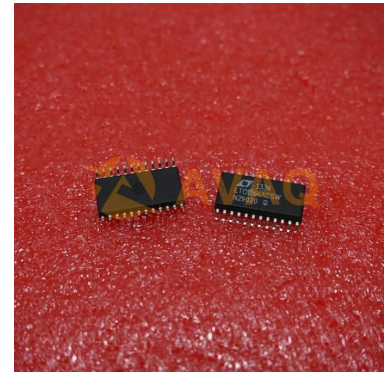


Active Filter Quad SW-CAP UNIV 8th Order 20kHz 24-Pin SOIC W Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	24-SOIC
Product Type:	Active Filter
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The LTC1164 consists of four low power, low noise 2nd order switched capacitor filter building blocks. Each building block typically consumes 850 μ A supply current. Low power is achieved without sacrificing noise and distortion. Each building block, together with 3 to 5 resistors, can provide 2nd order functions like lowpass, highpass, bandpass, and notch. The center frequency of each 2nd order section can be tuned with an external clock, or a clock and resistor ratio. For $Q < 5$, the center frequency range is from 0.1Hz to 20kHz. Up to 8th order filters can be realized by cascading all four 2nd order sections. Any classical filter realization (such as Butterworth, Cauer, Bessel, and Chebyshev) can be formed. A customized monolithic version of the LTC1164 including internal thin film resistors can be obtained. Contact Analog Devices for details. The LTC1164 is manufactured using our enhanced LTCMOS™ silicon gate process.

Key Features

- Low Power
- 4 Filters in a 0.3 Inch Wide Package
- 1/2 the Noise of the LTC1059, 60, 61 Devices
- Wide Output Swing
- Clock-to-Center Frequency Ratios of 50:1 and 100:1
- Operates from $\pm 2.37V$ to $\pm 8V$ Power Supplies
- Customized Version with Internal Resistors Available
- Ratio of 50:1 and 100:1 Simultaneously Available

Application

- Antialiasing Filters
- Telecom Filters
- Spectral Analysis
- Loop Filters
- For Fixed Lowpass Filter Requirements use the LTC1164-XX Series



Recommended For You

LTC1562CG

Analog Devices, Inc
SSOP20

LTC1068-25IG#PBF

Analog Devices, Inc
SSOP-28

LT1568IGN#PBF

Analog Devices, Inc
SSOP16

LTC1564IG

Analog Devices, Inc
SSOP

LTC1564IG#PBF

Analog Devices, Inc
SSOP16

LTC1063CN8#PBF

Analog Devices, Inc
DIP8

LTC1569IS8-7#PBF

Analog Devices, Inc
SOP8

LTC1062CSW#PBF

Analog Devices, Inc
SOP

LTC1569CS8-7#PBF

Analog Devices, Inc
SOIC

LTC1060CSW#PBF

Analog Devices, Inc
SOP20

LTC1062CN8

Analog Devices, Inc
DIP8

LTC1060CN

Analog Devices, Inc
DIP20

LTC1063CN8

Analog Devices, Inc
DIP8

LTC1068-25CG#PBF

Analog Devices, Inc
SSOP-28

LTC1067-50CGN#PBF

Analog Devices, Inc
SSOP-16