

Active Filter Dual SW-CAP UNIV 4th Order 20kHz 20-Pin SOIC WTube



Images are for reference only

[Inquiry](#)

Manufacturer: [Analog Devices, Inc](#)

Package/Case: SOP20

Product Type: Active Filter

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The LTC1060 consists of two high performance, switched capacitor filters. Each filter, together with 2 to 5 resistors, can produce various 2nd order filter functions such as lowpass, bandpass, highpass notch and allpass. The center frequency of these functions can be tuned by an external clock or by an external clock and resistor ratio. Up to 4th order full biquadratic functions can be achieved by cascading the two filter blocks. Any of the classical filter configurations (like Butterworth, Chebyshev, Bessel, Cauer) can be formed.

The LTC1060 operates with either a single or dual supply from $\pm 2.37V$ to $\pm 8V$. When used with low supply (i.e. single 5V supply), the filter typically consumes 12mW and can operate with center frequencies up to 10kHz. With $\pm 5V$ supply, the frequency range extends to 30kHz and very high Q values can also be obtained.

The LTC1060 is manufactured by using an enhanced LTCMOS™ silicon gate process. Because of this, low offsets, high dynamic range, high center frequency Q product and excellent temperature stability are obtained.

The LTC1060 is pinout compatible with MF10.

Key Features

Low power and 88dB dynamic range at $\pm 2.5V$ supply

Center frequency Q product up to 1.6MHz

Guaranteed offset voltages

Guaranteed Q accuracy over temperature

Low temperature coefficient of Q and center frequency

Low crosstalk, 70dB

Clock inputs TTL and CMOS compatible

Application

Signal Processing

Recommended For You

LTC1562CG

Analog Devices, Inc
SSOP20

LTC1164ACSW#PBF

Analog Devices, Inc
24-SOIC

LTC1068-25IG#PBF

Analog Devices, Inc
SSOP-28

LT15681GN#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

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