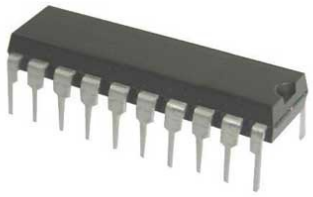
LTC1060CN

Active Filter Dual SW-CAP UNIV 4th Order 20kHz 20-Pin PDIP N



Images are for reference only

Inquiry

Manufacturer:	Analog Devices, Inc
Package/Case:	DIP20
Product Type:	Active Filter
Lifecycle:	Obsolete

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 ±2.37V to ±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 ±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

Guaranteed Filter Specification for ±2.37V and ±5V Supply

Operates up to 30kHz

Low Power and 88dB Dynamic Range at ±2.5V Supply

Center Frequency Q Product up to 1.6MHz

Guaranteed Offset Voltages

Guaranteed Clock to Center Frequency Accuracy over Temperature

0.3% for LTC1060A

0.8% for LTC1060

Guaranteed Q Accuracy Over Temperature

Low Temperature Coefficient of Q and Center Frequency

Low Crosstalk, 70dB

Clock Inputs TTL and CMOS Compatible

Application

Single 5V Supply Medium Frequency Filters

Very High Q and High Dynamic Range Bandpass, Notch Filters

Tracking Filters

Telecom Filters

Recommended For You

LTC1562CG

Analog Devices, Inc

SSOP20

LTC1164ACSW#PBF

Analog Devices, Inc

24-SOIC

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

LTC1063CN8

Analog Devices, Inc

DIP8

LTC1068-25CG#PBF

Analog Devices, Inc

SSOP-28

LTC1067-50CGN#PBF

Analog Devices, Inc

SSOP-16