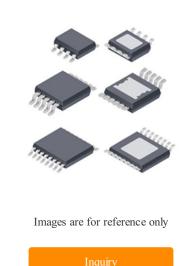


# Active Filter Single Low Pass 10th Order 300kHz 8-Pin SOIC N Tube

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



## **General Description**

The LTC1569-7 is a 10th order lowpass filter featuring linear phase and a root raised cosine amplitude response. The high selectivity of the LTC1569-7 combined with its linear phase in the passband makes it suitable for filtering both in data communications and data acquisition sytems. Furthermore, its root raised cosine response offers the optimum pulse shaping for PAM data communications. The filter attenuation is 50dB at 1.5 • fCUTOFF, 60dB at 2 • fCUTOFF, and in excess of 80dB at 6 •fCUTOFF. DC-accuracy-sensitive applications benefit from the 5mV maximum DC offset. The LTC1569-7 is the first sampled data filter which does not require an external clock yet its cutoff frequency can be set with a single external resistor with a typical accuracy of 3.5% or better. The external resistor programs an internal oscillator whose frequency is divided by either 1, 4 or 16 prior to being applied to the filter network. Pin 5 determines the divider setting. Thus, up to three cutoff frequencies can be obtained for each external resistor value. Using various resistor values and divider settings, the cutoff frequency can be programmed over a range of seven octaves. Alternatively, the cutoff frequency is 64:1. The LTC1569-7 is fully tested for a cutoff frequency of 256kHz/128kHz with single 5V/3V supply although up to 300kHz cutoff frequencies can be obtained.

The LTC1569-7 features power savings modes and it is available in an SO-8 surface mount package.

Key Features	Application
One external R sets cutoff frequency	Communications & Networking, Signal Processing
5mV DC Accurate, VOS(maximum)	
Low power modes	
Differential or single-ended inputs	
Operates from 3 to $\pm 5$ V supplies	

## **Recommended For You**

LTC1562CG	LTC1164ACSW#PBF	LTC1068-25IG#PBF
Analog Devices, Inc	Analog Devices, Inc	Analog Devices, Inc
SSOP20	24-SOIC	SSOP-28

# AVAQ SEMICONDUCTOR CO., LIMITED

#### LT1568IGN#PBF

Analog Devices, Inc SSOP16

### LTC1063CN8#PBF

Analog Devices, Inc DIP8

# LTC1060CSW#PBF

Analog Devices, Inc SOP20

### LTC1063CN8

Analog Devices, Inc

DIP8

### LTC1564IG

Analog Devices, Inc SSOP

## LTC1569IS8-7#PBF

Analog Devices, Inc SOP8

## LTC1062CN8

Analog Devices, Inc DIP8

### LTC1068-25CG#PBF

Analog Devices, Inc SSOP-28

#### LTC1564IG#PBF

Analog Devices, Inc SSOP16

## LTC1062CSW#PBF

Analog Devices, Inc SOP

# LTC1060CN

Analog Devices, Inc DIP20

### LTC1067-50CGN#PBF

Analog Devices, Inc SSOP-16