

Active Filter Single SW-CAP Low Pass 5th Order 15kHz 8-Pin uMAX

Manufacturer:	Maxim Integrated	<input type="text" value="MAX7409EUA+ Image"/> Images are for reference only <input type="button" value="Inquiry"/>
Package/Case:	MSOP8	
Product Type:	Active Filter	
RoHS:	RoHS Compliant/Lead free 	
Lifecycle:	Active	

General Description

Create a design and simulate using EE-Sim tools: MAX7409

The MAX7409/MAX7410/MAX7413/MAX7414 5th-order, lowpass, switched-capacitor filters (SCFs) operate from a single +5V (MAX7409/MAX7410) or +3V (MAX7413/ MAX7414) supply. These devices draw only 1.2mA of supply current and allow corner frequencies from 1Hz to 15kHz, making them ideal for low-power post-DAC filtering and anti-aliasing applications. They feature a shutdown mode, which reduces the supply current to 0.2μA. Two clocking options are available on these devices: self-clocking (through the use of an external capacitor) or external clocking for tighter corner-frequency control. An offset adjust pin allows for adjustment of the DC output level. The MAX7409/MAX7413 Bessel filters provide low overshoot and fast settling, while the MAX7410/MAX7414 Butterworth filters provide a maximally flat passband response. Their fixed response simplifies the design task to selecting a clock frequency.

Key Features

Supply voltage range is 4.5V to 5.5V

Single supply operation

Operating temperature range from -40°C to 85°C

Bessel response

Low power, 12. mA(operating mode) and 0.2μA (shutdown mode)

Clock tunable corner frequency (1Hz to 15KHz)

Clock to corner frequency ratio is 100:1

Offset adjust pin for DC output level adjustments

Low output offset of ±4mV

Application

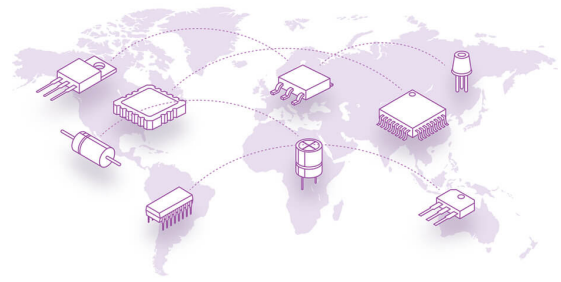
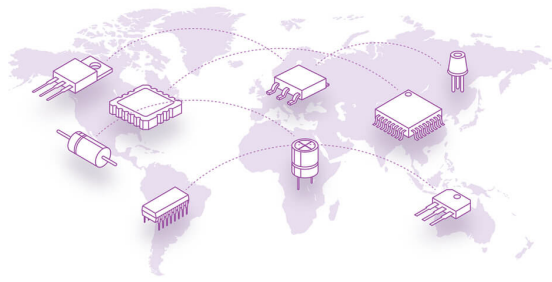
ADC Anti-Aliasing

Air-Bag Electronics

CT2 Base Stations

DAC Post-Filtering

Speech Processing



Recommended For You

MAX293CPA

Maxim Integrated

DIP8

MAX291ESA+

Maxim Integrated

SOP-8

MAX7400CSA+

Maxim Integrated

SOIC(N)

MAX295EPA+

Maxim Integrated

PDIP8

MAX7427CUA

Maxim Integrated

MSOP8

MAX7400ESA+

Maxim Integrated

SOP-8

MAX274ACNG+

Maxim Integrated

DIP24

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