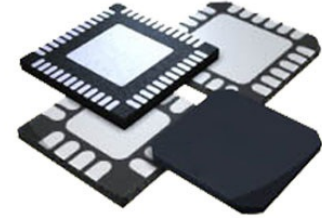


Low Pass Filter 32-Pin LFCSP EP Cut Tape



Images are for reference only

[Inquiry](#)

Manufacturer: [Analog Devices, Inc](#)

Package/Case: QFN

Product Type: RF Integrated Circuits

RoHS: RoHS Compliant/Lead free 

Lifecycle: Obsolete

General Description

The HMC900LP5E is a 6th order, programmable bandwidth, fully calibrated, dual low pass filter. It features 0 or 10 dB input gain setting and supports arbitrary bandwidths from 3.5 to 50 MHz, and when calibrated, is accurate to $\pm 2.5\%$ of the desired bandwidth. It includes a filter bypass option with a bandwidth of 100 MHz, while retaining gain and common mode settings.

Housed in a compact 5x5mm SMT QFN package, the HMC900LP5E requires minimal external components and provides a low cost alternative to more complicated switched discrete filter architectures. Filter calibration for the HMC900LP5E is accomplished with any reference clock rate from 20 to 80 MHz. One time programmable (OTP) memory offers unsurpassed flexibility allowing the user "set and forget" parameters like gain, and bandwidth setting. Matched filter paths provide excellent quadrature balance, making the HMC900LP5E ideal for I/Q communications applications. The 6th order Butterworth transfer function delivers superior stop band rejection while maintaining both a flat passband and minimal group delay variation.

Key Features

Low Noise Figure: 12 dB

High linearity: Output IP3 +30 dBm

Programmable Bandwidth: 3.5 to 50 MHz

Exceptional 3 dB Bandwidth Accuracy: $\pm 2.5\%$

6th order Butterworth Magnitude & Phase Response

Automatic Filter Calibration

Externally Controlled Common Mode Output Level Simplifies Interface

Read/Write Serial Port Interface (SPI)

32 Lead 5x5 mm SMT Package: 25 mm²

Application

Baseband Filtering for A/D or D/A Converters

Point-to-Point, Fixed Wireless & Cellular Base Station Transceivers

Integrated Direct Conversion Receiver (DCR)

Software Defined Radio Applications

Test & Measurement Equipment

Recommended For You

HMC890ALP5E

Analog Devices, Inc
LFCSP-32

HMC882LP5ETR

Analog Devices, Inc
DETAIL

HMC1044LP3ETR

Analog Devices, Inc
QFN

HMC892ALP5E

Analog Devices, Inc
LFCSP-32

HMC881LP5ETR

Analog Devices, Inc
QFN

HMC882ALP5E

Analog Devices, Inc
LFCSP32

HMC1000LP5ETR

Analog Devices, Inc
SMD

HMC890ALP5ETR

Analog Devices, Inc
LFCSP-32

HMC891LP5ETR

Analog Devices, Inc
QFN

HMC895LP4ETR

Analog Devices, Inc
QFN

HMC894LP5ETR

Analog Devices, Inc
QFN

HMC896LP4ETR

Analog Devices, Inc
SMD

HMC892LP5ETR

Analog Devices, Inc
QFN

HMC891ALP5E

Analog Devices, Inc
LFCSP-32

HMC882ALP5ETR

Analog Devices, Inc
LFCSP32