AD8348ARUZ

Quadrature Dmod 75MHz 28-Pin TSSOP Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	TSSOP28
Product Type:	RF Integrated Circuits
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The AD8348 is a broadband quadrature demodulator with an integrated intermediate frequency (IF), variable gain amplifier (VGA), and integrated baseband amplifiers.It is suitable for use in communications receivers, performing quadrature demodulation from IF directly to baseband frequencies.The baseband amplifiers are designed to interface directly with dual-channel ADCs, such as the AD9201, AD9283, and AD9218, for digitizing and post-processing.

The IF input signal is fed into two Gilbert cell mixers through an X-AMP® VGA.The IF VGA provides 44 dB of gain control.A precision gain control circuit sets a linear-in-decibel gain characteristic for the VGA and provides temperature compensation.The LO quadrature phase splitter employs a divide-by-2 frequency divider to achieve high quadrature accuracy and amplitude balance over the entire operating frequency range.

The AD8348 is fabricated on an advanced bipolar process, operating on a single 3 or 5 volt supply, packaged in space saving 28 lead thin shrunk small outline (TSSOP) package and fully specified over the –40 to +85 C temperature range

Samples AD8348ARU and evaluation boards AD8348-EVAL are available

Other Modulator/Demodulator products
AD8345250MHz – 1GHz RF/IF Modulator
AD8346800MHz – 2.5GHz Modulator
AD8347800MHz – 2.7GHz Demodulator
AD8349700MHz – 2.7GHz Modulator

Key Features

50 MHz – 1000 MHz RF input range

Integrated 45 dB linear-in-dB VGA IF amplifier

Integrated baseband output amplifiers

Demodulation bandwidth 75 MHz

Quadrature phase accuracy 0.5°

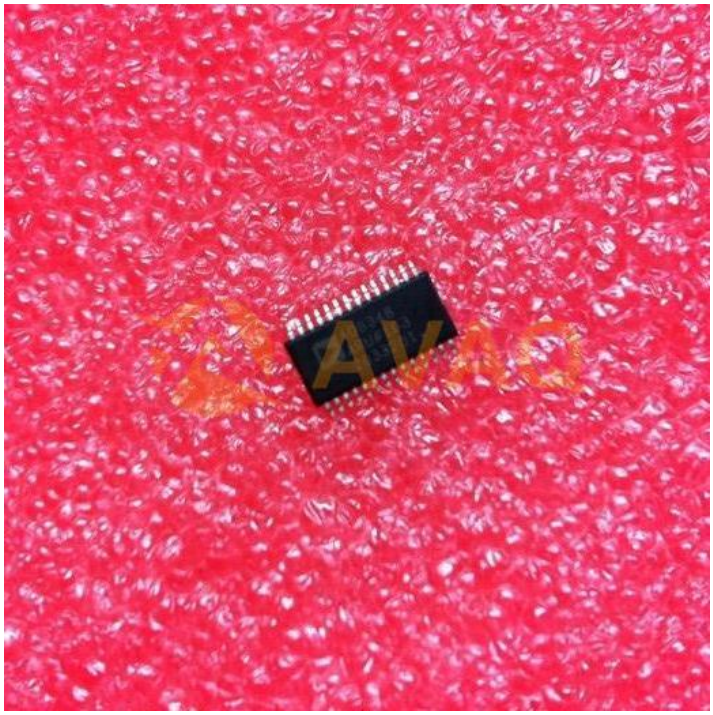
Amplitude balance 0.25 dB

Third order intercept IIP3 +28 dBm (min gain)

Noise figure 11 dB (max gain)

Low LO drive –10 dBm

Single supply 2.7 V to 5.5 V with power down



Recommended For You

ADF4153BCPZ
Analog Devices, Inc
QFN

ADF5355BCPZ
Analog Devices, Inc
LFCSP32

AD8318ACPZ
Analog Devices, Inc
LFCSP

AD6620ASZ
Analog Devices, Inc
QFP

ADF4107BCPZ
Analog Devices, Inc
QFN

ADL5513ACPZ-R7
Analog Devices, Inc
LFCSP-16

AD8319ACPZ
Analog Devices, Inc
LFCSP

ADRF6755ACPZ
Analog Devices, Inc
QFN

ADL5535ARKZ-R7
Analog Devices, Inc
SOT89

AD608AR
Analog Devices, Inc
SOP16

ADF4107BRUZ-REEL7
Analog Devices, Inc
TSSOP16

ADRF6780ACPZN
Analog Devices, Inc
QFN

AD8317ACPZ
Analog Devices, Inc
LFCSP

AD608ARZ
Analog Devices, Inc
SOP16

AD8318ACPZ-REEL7
Analog Devices, Inc
LFCSP