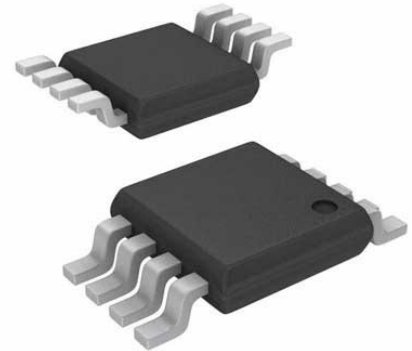


RF Detector 2500MHz 8-Pin MSOP Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	MSOP8
Product Type:	RF Integrated Circuits
Lifecycle:	Obsolete



Images are for reference only

[Inquiry](#)

General Description

The AD8361 is a mean-responding power detector for use in high frequency receiver and transmitter signal chains, up to 2.5 GHz. It is very easy to apply. It requires a single supply only between 2.7 V and 5.5 V, a power supply decoupling capacitor, and an input coupling capacitor in most applications. The output is a linear-responding dc voltage with a conversion gain of 7.5 V/V rms. An external filter capacitor can be added to increase the averaging time constant.

The AD8361 is intended for true power measurement of simple and complex waveforms. The device is particularly useful for measuring high crest-factor (high peak-to-rms ratio) signals, such as CDMA and W-CDMA. The AD8361 has three operating modes to accommodate a variety of analog-to-digital converter requirements:

Ground reference mode, in which the origin is zero.

Internal reference mode, which offsets the output 350 mV above ground.

Supply reference mode, which offsets the output to $V_S/7.5$.

The AD8361 is specified for operation from -40°C to $+85^{\circ}\text{C}$ and is available in 8-lead MSOP and 6-lead SOT-23 packages. It is fabricated on a proprietary high ft silicon bipolar process.

Key Features

Calibrated rms response

Excellent temperature stability

Up to 30 dB input range at 2.5 GHz

700 mV rms, 10 dBm, re 50 Ω maximum input

Single-supply operation: 2.7 V to 5.5 V

Low power: 3.3 mW at 3 V supply

Rapid power-down to less than 1 μA

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