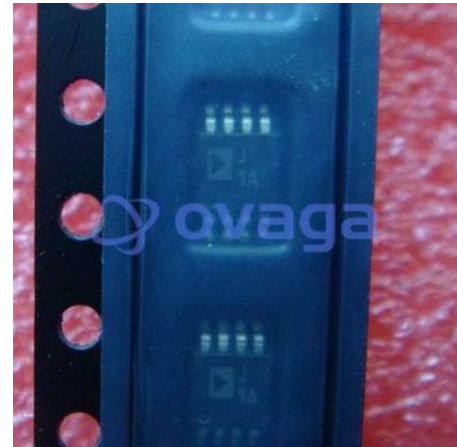


0.1 GHz to 2.5 GHz 70 dB Logarithmic Detector/Controller

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-8
Product Type	RF Power Detectors ; Log Detectors
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD8313ARMZ-REEL7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8313 is a complete multistage demodulating logarithmic amplifier that can accurately convert an RF signal at its input to an equivalent decibel-scaled value at its dc output. The AD8313 maintains a high degree of log conformance for signal frequencies from 0.1 GHz to 2.5 GHz. Application is straightforward, requiring only a single supply of 2.7 V to 5.5 V and the addition of a suitable input and supply decoupling. Operating on a 3 V supply, its 13.7 mA consumption (for>

The AD8313 is fabricated on Analog Devices, Inc., advanced 25 GHz silicon bipolar IC process and is available in an 8-lead MSOP package. The operating temperature range is -40°C to $+85^{\circ}\text{C}$.

Features

Wide bandwidth: 0.1 GHz to 2.5 GHz min

High dynamic range: 70 dB to ± 3.0 dB

High accuracy: ± 1.0 dB over 65 dB range (@ 1.9 GHz)

Fast response: 40 ns full-scale typical

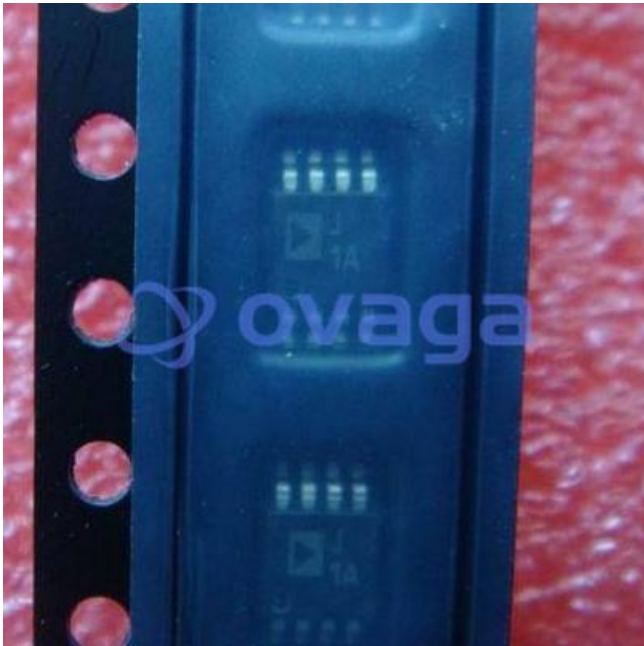
Controller mode with error output

Scaling stable over supply and temperature

Wide supply range: 2.7 V to 5.5 V

Low power: 40 mW at 3 V

Power-down feature: 60 mW at 3 V

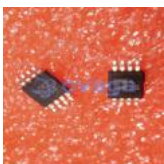


Related Products



[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc
MSOP-8



[AD8062ARMZ](#)

Analog Devices, Inc
MSOP8



[AD8567ARUZ](#)

Analog Devices, Inc
TSSOP-14



[AD8628AUJZ](#)

Analog Devices, Inc
SOP23



[AD8022ARMZ](#)

Analog Devices, Inc
MSOP-8



[AD8041AR](#)

Analog Devices, Inc
SOP-8