


RF Detector 0MHz to 5800MHz 10dBm 24-Pin QFN EP T/R

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



Images are for reference only

[Inquiry](#)

General Description

The HMC909LP4E Power Detector is designed for RF power measurement, and control applications for frequencies up to 5.8 GHz. The detector provides an accurate RMS representation of any broadband, single-ended RF/IF input signal. The output is a temperature compensated monotonic, representation of real signal power, measured with an input sensing range of 40 dB.

The HMC909LP4E is ideally suited to those wide bandwidth, wide dynamic range applications, requiring repeatable measurement of real signal power, especially where RF/IF wave shape and/or crest factor change with time.

The integration bandwidth of the HMC909LP4E is digitally programmable with the use of input pins SC I1-4 with a range of more than 4 decade. This allows the user to dynamically set the operation bandwidth providing the capability of handling different types of modulations on the same platform.

HMC909LP4E features an internal op-amp at output stage, which provides for slope / intercept adjustments and enables controller application.

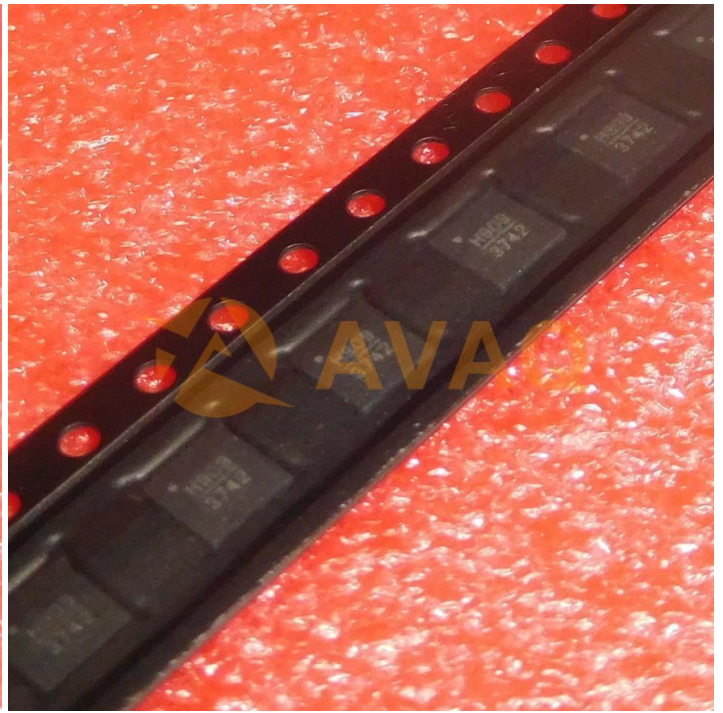
Applications

Key Features

- Broadband Single-Ended RF Input
- Input Dynamic Range: -51 to -11 dBm
- Digitally Programmable
- Integration Bandwidth
- RF Signal Wave Shape & Crest Factor Independent
- Excellent Temperature Stability
- Power-Down Mode
- 24 Lead 4x4mm SMT Package: 16mm²

Application

- Log → Root-Mean-Square (RMS) Conversion
- Received Signal Strength Indication (RSSI)
- Transmitter Signal Strength Indication (TSSI)
- RF Power Amplifier Efficiency Control
- Receiver Automatic Gain Control
- Transmitter Power Control



Recommended For You

HMC624ALP4E

Analog Devices, Inc

QFN24

HMC952ALP5GE

Analog Devices, Inc

QFN

HMC361S8GE

Analog Devices, Inc

SOP-8

HMC253AQS24E

Analog Devices, Inc

QFN

HMC346MS8G

Analog Devices, Inc

MSOP8

HMC1119LP4ME

Analog Devices, Inc

QFN

HMC659LC5

Analog Devices, Inc

QFN

HMC564LC4

Analog Devices, Inc

QFN

HMC1021LP4E

Analog Devices, Inc

QFN

HMC241AQS16E

Analog Devices, Inc

SSOP16

HMC424LP3E

Analog Devices, Inc

QFN

HMC662LP3E

Analog Devices, Inc

QFN

HMC8038LP4CE

Analog Devices, Inc

QFN16

HMC363S8G

Analog Devices, Inc

SOP8

HMC394LP4E

Analog Devices, Inc

QFN