


## RF Detector 10MHz to 1300MHz 10dBm 16-Pin QSOP EP Cut Tape

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	QSOP16
<b>Product Type:</b>	RF Integrated Circuits
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

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### General Description

The HMC439QS16G(E) is a digital phase-frequency detector intended for use in low noise phase-locked loop applications for inputs from 10 to 1300 MHz. Its combination of high frequency of operation along with its ultra low phase noise floor make possible synthesizers with wide loop bandwidth and low N resulting in fast switching and very low phase noise. When used in conjunction with a differential loop amplifier, the HMC439QS16G(E) generate output voltages that can be used to phase lock a VCO to a reference oscillator. The device is packaged in a low cost, surface mount 16 lead QSOP package with an exposed base for improved RF and thermal performance.

### Key Features

- Ultra Low SSB Phase Noise Floor:-153 dBc/Hz@10 kHz offset @ 100 MHz
- Input up to 1300 MHz Fin.
- Differential Input/Single Ended Output
- Open Collector Output Buffer Amplifiers
- QSOP16G SMT Package: 29.4mm<sup>2</sup>

### Application

- Point-to-Point Radios
- Satellite Communication Systems
- Military Applications
- Sonet Clock Generation

### 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

**HMC909LP4E**

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