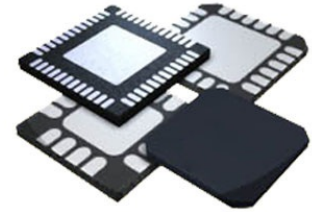


## RF Detector 10MHz to 4000MHz 12dBm 24-Pin QFN EP T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Analog Devices, Inc](#)

**Package/Case:** QFN

**Product Type:** RF Integrated Circuits

**Lifecycle:** Obsolete

### General Description

The HMC601LP4(E) Logarithmic Detector/Controller converts RF signals at its input, to a proportional DC voltage at its output. The HMC601LP4(E) employ a successive compression topology which delivers extremely high dynamic range and conversion accuracy over a wide input frequency range. As the input power is increased, successive amplifiers move into saturation one by one creating an accurate approximation of the logarithm function.

The output of a series of square law detectors is summed, converted into voltage domain and buffered to drive the LOGOUT output. For detection mode, the LOGOUT pin is shorted to the VSET input, and will provide a nominal logarithmic slope of 19mV/dB and an intercept of -100 dBm. The HMC601LP4(E) can also be used in the controller mode where an external voltage is applied to the VSET pin, to create an AGC or APC feedback loop. The HMC601LP4(E) provides a 15/34ns (rise/fall time) response time enabling RF burst detection to a pulse rate beyond 20 MHz.

### Key Features

- Wide Dynamic Range: up to 75 dB
- Fast Pulse Response: 15/34ns (Rise/Fall Time)
- Flexible Supply Voltage:+2.7V to +5.5V
- Power-Down Mode
- Excellent Stability over Temperature
- 4x4mm Leadless SMT Package

### Application

- Cellular/PCS/3G
- WiMAX, WiBro & Fixed Wireless
- Power Monitoring & Control Circuitry
- Receiver Signal Strength Indication (RSSI)
- Automatic Gain & Power Control Circuits

### 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