
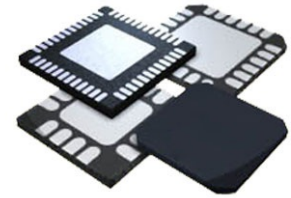


RF Detector 50MHz to 8000MHz 12dBm 16-Pin LFCSP EP Cut Tape

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 HMC713LP3E Logarithmic Detector/Controller is ideal for converting the power of RF signals with frequencies in the 50 MHz to 8000 MHz range, to a DC voltage, proportional to input power, at its output. The HMC713LP3E employs a successive compression technology which delivers 54 dB of dynamic range with high measurement accuracy over a wide input frequency range. As the input signal is increased, successive amplifiers move into saturation one by one creating an accurate approximation of the logarithm function. The outputs of a series of detectors are summed, converted into voltage domain and buffered to drive the OUTP output. For detection mode, the OUTP pin is connected to the VSET input and will provide a nominal logarithmic slope of 17 mV/dB and an intercept of -68 dBm. The HMC713LP3E 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.

Key Features

- High accuracy - ± 1 dB with 54dB range up to 2.7GHz
- Fast output response time
- Power-down mode
- Excellent stability over temperature

Application

RF Communications, Motor Drive & Control, Aerospace, Defence, Military, Automotive

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