


RF Detector 45MHz to 2700MHz 12dBm 8-Pin MSOP T/R

Manufacturer:	<u>Analog Devices, Inc</u>
Package/Case:	MSOP8
Product Type:	RF Integrated Circuits
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Obsolete



Images are for reference only

[Inquiry](#)

General Description

The HMC713MS8(E) Logarithmic Detector/Controller is ideal for converting RF signals with frequencies in the 45 MHz to 2700 MHz range, to a proportional DC voltage at its output. The HMC713MS8(E) employs a successive compression technology which delivers 54 dB of dynamic range with high conversion 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 OUT output. For detection mode, the OUT 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 HMC713MS8(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.

Key Features

- Wide Dynamic Range: up to 54 dB
- High Accuracy: ± 1 dB with 54 dB Range up to 2.7 GHz
- Fast Output Response Time
- Supply Voltage: +2.7 to +5.5V
- Power-Down Mode
- Excellent Stability over Temperature
- MSOP-8 SMT Package: 14.8 mm²

Application

- Cellular Infrastructure
- WiMAX, WiBro & LTE/4G
- Power Monitoring & Control Circuitry
- Receiver Signal Strength Indication (RSSI)
- Automatic Gain & Power Control
- Military, ECM & Radar



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