

HMC948LP3E

Data Sheet

54 dB, LOGARITHMIC DETECTOR, 1

Manufacturers	Analog Devices, Inc
Package/Case	LP3
Product Type	RF Integrated Circuits
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for HMC948LP3E or Email to us: sales@ovaga.com We will contact you in 12 hours.	<u>RFQ</u>)
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General Description

The HMC948LP3E Logarithmic Detector converts RF signals at its input, to a proportional DC voltage at its output. The HMC948LP3E employs successive compression topology which delivers high dynamic range over a wide input frequency range. As the input power is increased, successive amplifiers move into saturation one by one creating an approximation of the logarithm function.

The output of a series of square law detectors is summed, converted into the voltage domain and buffered to drive the LOG OUT output. The HMC948LP3E provides a nominal logarithmic slope of +14.2 mV/dB and an intercept of -111 dBm at 23 GHz. Ideal as a log detector for high volume microwave radio and VSAT applications, the HMC948LP3E is housed in a compact 3x3 mm RoHS compliant SMT plastic package.

Features	Application
Wide Input Bandwidth: 1 to 23 GHz	Point-to-Point Microwave Radio
Wide Dynamic Range: 54 dB up to 23 GHz	VSAT
Single Positive Supply: +3.3V	Wideband Power Monitoring
Excellent Stability Over Temperature	Receiver Signal Strength Indication (RSSI)
Fast Rise / Fall Time: 5 / 7 ns	Test & Measurement
16 Lead 3x3mm SMT Package: 9mm ²	



Related Products



Analog Devices, Inc QFN-12

HMC3653LP3BE



HMC253AQS24 Analog Devices, Inc 24-SSOP (0.154, 3.90mm Width)



HMC441LP3E

Analog Devices, Inc QFN-16



HMC358MS8GE

Analog Devices, Inc MSOP-8



HMC490

Analog Devices, Inc SMD



HMC453ST89E

Analog Devices, Inc ST89E



HMC618ALP3E

Analog Devices, Inc

QFN-16



HMC463LP5E

Analog Devices, Inc QFN-32