
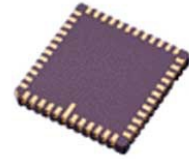


**RF Amp Single MMIC Amp 28GHz 7V 16-Pin CLLCC EP  
T/R**

|                      |  |
|----------------------|--|
| <b>Manufacturer:</b> | <a href="#">Analog Devices, Inc</a>  |
| <b>Package/Case:</b> | LCC-16   |
| <b>Product Type:</b> | Amplifier ICs  |
| <b>RoHS:</b>         | RoHS Compliant/Lead free  |
| <b>Lifecycle:</b>    | Active   |



Images are for reference only

[Inquiry](#)

## General Description

The HMC7950 is a gallium arsenide (GaAs), pseudomorphic high electron mobility transistor (pHEMT), monolithic microwave integrated circuit (MMIC). The HMC7950 is a wideband low noise amplifier that operates between 2 GHz and 28 GHz. The amplifier typically provides 15 dB of gain, 2.0 dB of noise figure, 26 dBm of output IP3, and 16 dBm of output power for 1 dB gain compression, requiring 64 mA from a 5 V supply. The HMC7950 is self biased with only a single positive supply needed to achieve a drain current,  $I_{DD}$ , of 64 mA. The HMC7950 also has a gain control option, VGG2. The HMC7950 amplifier input/outputs are internally matched to 50  $\Omega$  and dc blocked. It comes in a 6 mm  $\times$  6 mm, 16-terminal LCC SMT ceramic package that is easy to handle and assemble.

## Key Features

- Output power for 1 dB compression (P1dB): 16 dBm typical
- Saturated output power (PSAT): 19.5 dBm typical
- Gain: 15 dB typical
- Noise figure: 2.0 dB typical
- Output third-order intercept (IP3): 26 dBm typical
- Supply voltage: 5 V at 64 mA
- 50  $\Omega$  matched input/output

## Application

- Test instrumentation
- Military and space

## 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