

# **HMC490LP5ETR**

Data Sheet

RF Amp Chip Single GP 16GHz 5V 32-Pin QFN EP T/R

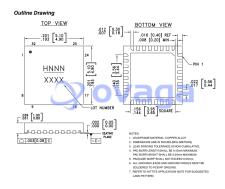
Manufacturers <u>Analog Devices, Inc</u>

Package/Case QFN32

Product Type RF Amplifiers

RoHS Pb-free Halide free

Lifecycle



Images are for reference only

Please submit RFQ for HMC490LP5ETR or Email to us: sales@ovaga.com We will contact you in 12 hours.

**RFO** 

## **General Description**

The HMC490LP5(E) is a high dynamic range GaAs PHEMT MMIC Low Noise Amplifier which operates between 12 and 16 GHz. The HMC490LP5(E) provides 23 dB of gain, 2.5 dB noise figure and an output IP3 of +34 dBm from a +5V supply voltage. This versatile amplifier combines excellent, stable +25 dBm P1dB output power with very low noise figure making it ideal for receive and transmit applications. The amplifier is packaged in a leadless 5x5 mm QFN surface mount package.

**Features** Application

Noise Figure: 2.5 dB Point-to-Point Radios

P1dB Output Power: +25 dBm Point-to-Multi-Point Radios

Gain: 23 dB VSAT

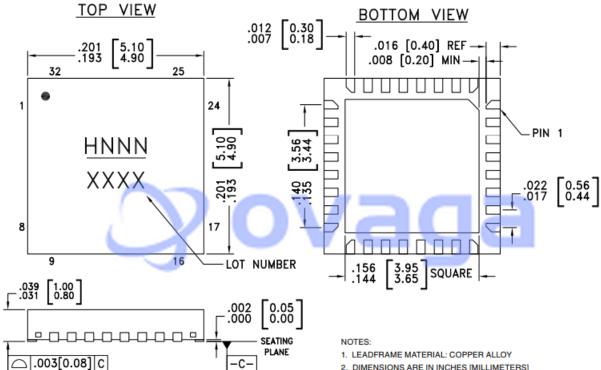
Output IP3: +34 dBm Military EW, ECM & C<sup>3</sup>I

Supply: +5V

50 Ohm Matched Input/Output

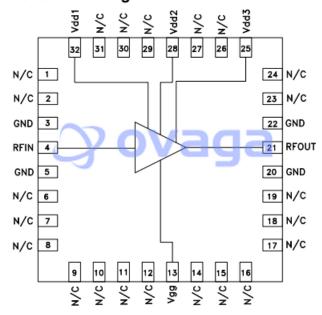
25 mm<sup>2</sup> Leadless QFN SMT Package

#### **Outline Drawing**



- 2. DIMENSIONS ARE IN INCHES [MILLIMETERS]
- 3. LEAD SPACING TOLERANCE IS NON-CUMULATIVE.
- 4. PAD BURR LENGTH SHALL BE 0.15mm MAXIMUM. PAD BURR HEIGHT SHALL BE 0.05mm MAXIMUM.
- 5. PACKAGE WARP SHALL NOT EXCEED 0.05mm.
- 6. ALL GROUND LEADS AND GROUND PADDLE MUST BE SOLDERED TO PCB RF GROUND.
- 7. REFER TO HITTITE APPLICATION NOTE FOR SUGGESTED LAND PATTERN.

#### **Functional Diagram**



### **Related Products**



HMC3653LP3BE
Analog Devices, Inc
QFN-12



Analog Devices, Inc QFN-16

HMC441LP3E



HMC253AQS24

Analog Devices, Inc

24-SSOP (0.154, 3.90mm Width)



HMC358MS8GE Analog Devices, Inc MSOP-8



HMC453ST89E
Analog Devices, Inc
ST89E



HMC948LP3E
Analog Devices, Inc
LP3



HMC490
Analog Devices, Inc
SMD



Analog Devices, Inc QFN-16

HMC618ALP3E