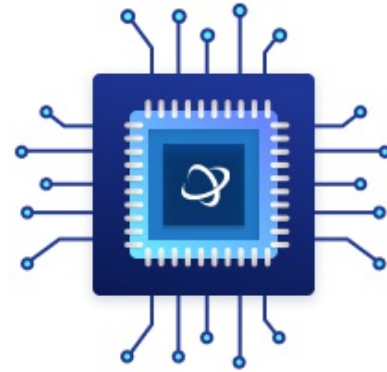


10 Watt GaN MMIC Power Amplifier, 6 - 18 GHz

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	N/A
Product Type	Amplifier ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for HMC7149 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The HMC7149 is an 10W Gallium Nitride (GaN) MMIC Power Amplifier which operates between 6 and 18 GHz. The amplifier typically provides 20 dB of small signal gain, +40 dBm of saturated output power, and +39.5 dBm output IP3 at +28 dBm output power per tone. The HMC7149 draws 680 mA current from a +28V DC supply. The RF I/Os are matched to 50 Ohms for ease of integration into Multi-Chip-Modules (MCMs). All electrical performance data was acquired with the die eutectically attached to 1.02 mm (40 mil) thick CuMo carrier with multiple 1.0 mil diameter ball bonds connecting the die to 50 Ohm transmission lines on alumina.

## Features

- High Psat: +40 dBm
- Power Gain at Psat: +10 dB
- High Output IP3: +39.5 dBm
- Small Signal Gain: 20 dB
- Supply Voltage: +28V @ 0.680 A
- 50 Ohm Matched Input/Output
- Die Size: 3.4 x 4.5 x 0.1 mm<sup>2</sup>

## Application

- Test Instrumentation
- General Communications
- Radar

## Related Products



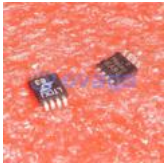
[HMC591LP5E](#)

Analog Devices, Inc  
QFN32



[HMC589AST89E](#)

Analog Devices, Inc  
SOT-89



[LTC6102HMS8#PBF](#)

Analog Devices, Inc  
8MSOP



[HMC464LP5](#)

Analog Devices, Inc  
QFN32



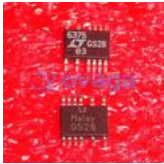
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Analog Devices, Inc  
QFN-16



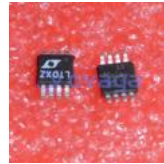
[LTC6102HMS8](#)

Analog Devices, Inc  
MSOP8



[LT6375HMS#PBF](#)

Analog Devices, Inc  
16MSOP



[LTC6102HMS8-1#PBF](#)

Analog Devices, Inc  
8-MSOP