

Distributed Power Amplifiers Cover 2-50 GHz to Simplify Instrumentation and Microwave Radio Applications

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) introduced today the HMC1127 and the HMC1126 MMIC (Monolithic Microwave Integrated Circuit) distributed power amplifiers. Covering the frequency range of 2-50 GHz, these new power amplifier die simplify system design and improve performance by eliminating the need for RF switches between frequency bands. Each amplifier incorporates I/Os that are internally matched to 50 Ohms, facilitating easy integration into multi-chip modules. All data is taken with the chips connected via two 0.02-mm (1 mil) wire bonds measuring 0.31-mm (12 mils) in length. Based on a GaAs (gallium-arsenide) pHEMT (pseudomorphic high-electron mobility transistor) design, the HMC1126 and HMC1127 are ideal for instrumentation, microwave radio and VSAT antennas, aerospace and defense systems, telecommunications infrastructure, and fiber optic applications.

This Smart News Release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20150714005131/en/>

- Download data sheet, order samples and evaluation boards
<http://www.analog.com/HMC1126>
<http://www.analog.com/HMC1127>
- Register for the distributed amplifier webcast:
<https://webinar.techonline.com/19992?keycode=CAA1GC>
- Connect with engineers and ADI product experts on EngineerZone®, an online technical support community:
<https://ez.analog.com/community/hittite-microwave-and-analog-devices-support-collaboration-group>
- Click to Tweet: <http://ctt.ec/M0brk>

HMC1127 GaAs pHEMT MMIC Distributed Power Amplifier Key Features:

- P1dB output power: 12.5 dBm
- Psat output power: 17.5 dBm
- Gain: 14.5 dB
- Output IP3: 23 dBm
- Supply voltage: +5 V @80 mA
- 50 Ohm matched I/O
- Die size: 2.7 x 1.45 x 0.1 mm

HMC1126 GaAs pHEMT MMIC Distributed Power Amplifier Key Features:

- P1dB output power: 17.5 dBm
- Psat output power: 21 dBm
- Gain: 11 dB
- Output IP3: 28 dBm
- Supply voltage: +5 V@65 mA
- 50 Ohm matched I/O

- Die size: 2.3 x 1.45 x 0.1 mm

Pricing and Availability

Product	Sample Availability	Full Production	Price Each per 1,000	Packaging
HMC1127	Now	Now	\$113	DIE
HMC1126	Now	Now	\$103	DIE

About Analog Devices

Analog Devices (NASDAQ: ADI) designs and manufactures semiconductor products and solutions. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure and connect. Visit <http://www.analog.com>

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