


RF Amp Single MMIC Amp 70GHz 4.5V 12-Pin Bare Die Tray

| | |
|----------------------|--|
| Manufacturer: | Analog Devices, Inc |
| Package/Case: | Chip |
| Product Type: | Amplifier ICs |
| RoHS: | RoHS Compliant/Lead free  |
| Lifecycle: | Active |



Images are for reference only

Inquiry

General Description

The HMC1144 is a gallium arsenide (GaAs), pseudomorphic high electron mobility transfer (pHEMT), monolithic microwave integrated circuit (MMIC), distributed power amplifier that operates from 35 GHz to 70 GHz. In the lower band of 35 GHz to 50 GHz, the HMC1144 provides 19 dB (typical) of gain, 28 dBm output IP3, and 19 dBm and 19.5 dBm, respectively, of output P1dB gain compression. In the upper band of 50 GHz to 70 GHz, the HMC1144 provides 19 dB (typical) of gain, 32 dBm output IP3, and 21 dBm of output power at 1 dB gain compression. The HMC1144 requires 320 mA from a 4 V supply. The HMC1144 amplifier inputs/outputs are internally matched to 50 Ω, facilitating integration into multichip modules (MCMs). All data is taken with the chip connected via two 0.025 mm (1 mil) wire bonds of 0.076 mm (3 mil) minimal length.

Application

- Test instrumentation
- Microwave radios and very small aperture terminals (VSATs)
- Military and space
- Telecommunications infrastructure
- Fiber optics

Recommended For You

HMC598

Analog Devices, Inc
SMD

LTC487CSW

Analog Devices, Inc
SOP16

AD812ARZ

Analog Devices, Inc
SOP8

AD812AR

Analog Devices, Inc
SOP8

MAX4473EUA-T

Analog Devices, Inc
MSOP-8

MAX1621EEE+

Analog Devices, Inc
SSOP16

MAX749EPA+

Analog Devices, Inc
DIP

MAX13175EETU+T

Analog Devices, Inc
QFN

MAX14521EETG+

Analog Devices, Inc
QFN24

MAX14980EIO+

Analog Devices, Inc
QFN42

MAX1864TEEE+

Analog Devices, Inc
QSOP16

LT5554IUH#PBF

Analog Devices, Inc
QFN

ADBT1001BSWZ

Analog Devices, Inc
SMT

AD534S

Analog Devices, Inc
CAN

ADA4303-2ACPZ

Analog Devices, Inc
LFCSP-12