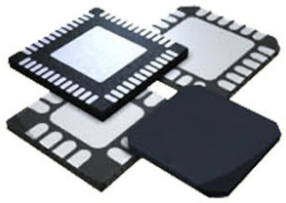
HMC788ALP2E

RF Amp Single MMIC Amp 10GHz 5.5V 6-Pin LFCSP EP Cut Tape

Manufacturer:	Analog Devices, Inc
Package/Case:	QFN6
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active



Images are for reference only

Inquiry

General Description

The HMC788A is a 0.01 GHz to 10 GHz, gain block, monolithic microwave integrated circuit (MMIC) amplifier using gallium arsenide (GaAs), pseudomorphic high electron mobility transistor (pHEMT) technology.

This 2 mm × 2 mm LFCSP amplifier can be used as either a cascadable 50 Ω gain stage, or to drive the local oscillator (LO) port of many of the single and double balanced mixers from Analog Devices, Inc. with up to 20 dBm output power.

The HMC788A offers 14 dB of gain and an output IP3 of 33 dBm while requiring only 76 mA from a 5 V supply.

The Darlington feedback pair exhibits reduced sensitivity to normal process variations and yields excellent gain stability over temperature while requiring a minimal number of external bias components.

Key Features

Gain: 14 dB typical

Operational frequency range: 0.01 GHz to 10 GHz

Input/output internally matched to 50 Ω

High input linearity

1 dB compression (P1dB): 20 dBm typical

Output third-order intercept (OIP3): 33 dBm typical

Supply voltage: 5 V typical

2 mm × 2 mm, 6-lead lead frame chip scale package

HMC788A-EP supports defense and aerospace applications (AQEC standard)

Download the(pdf)

Extended industrial temperature range: −55°C to +105°C

Controlled manufacturing baseline

One assembly/test site

One fabrication site

Enhanced product change notification

Qualification data available on request

Application

Cellular, 3G, LTE, WiMAX, and 4G

LO driver applications

Microwave radio

Test and measurement equipment

Ultra wideband (UWB) communications

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