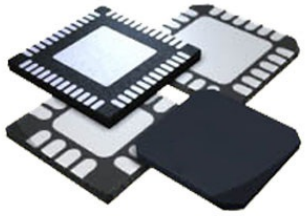
HMC814

Active RF Multipliers x2 13GHz to 24.6GHz-OUT 4-Pin Tray

Manufacturer:	Analog Devices, Inc
Package/Case:	QFN
Product Type:	RF Integrated Circuits
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active



Images are for reference only

Inquiry

General Description

The HMC814 is a x2 active broadband frequency multiplier chip utilizing GaAs PHEMT technology. When driven by a +4 dBm signal, the multiplier provides +17 dBm typical output power from 13 to 24.6 GHz. The Fo, 3Fo and 4Fo isolations are >20 dBc at 19 GHz. The HMC814 is ideal for use in LO multiplier chains for Pt-to-Pt & VSAT Radios yielding reduced parts count vs. traditional approaches. The low additive SSB Phase Noise of -136 dBc/Hz at 100 kHz offset helps maintain good system noise performance. All data is taken with the chip connected via two 0.025mm (1 mil) wire bonds of minimal length 0.31 mm (12 mils).

Key Features

High Output Power: +17 dBm

Low Input Power Drive: 0 to +6 dBm

Fo Isolation: >20 dBc @>

100 kHz SSB Phase Noise: -136 dBc/Hz

Single Supply: +5V @ 88mA

Die Size: 1.2 x 1.23 x 0.1 mm

Application

Clock Generation Applications:SONET OC-192 & SDH STM-64

Point-to-Point & VSAT Radios

Test Instrumentation

Military End-Use

Sensors

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