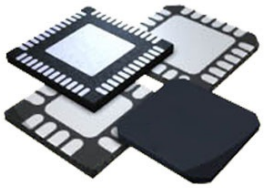
HMC814LC3B

Active RF Multipliers x2 13GHz to 24.6GHz-OUT 12-Pin CLLCC Cut Tape

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 HMC814LC3B is a x2 active broadband frequency multiplier utilizing GaAs PHEMT technology in a leadless RoHS compliant SMT package. 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 HMC814LC3B 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. The RoHS packaged HMC814LC3B eliminates the need for wire bonding, and allows the use of surface mount manufacturing techniques.

Key Features

Frequency range: 5.5 GHz to 12 GHz

Low noise figure: 1.5 dB typical

High gain: 18 dB typical

Input/output return loss: 10 dB/12 dB typical

Supply voltage: +5V

Supply current: 60 mA typical

GaAs pHEMT technology

RoHS compliant 3x3 mm surface-mount package

Application

Microwave and millimeter-wave communication systems

Radar systems and electronic warfare

Test and measurement equipment

Satellite communications (SATCOM)

Point-to-point and point-to-multipoint radios

Military and aerospace systems

Alternative Products

MAAL-011141

SKY67159-396LF

QPL9503

HMC-C056

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