HMC448

Active RF Multipliers x2 19GHz to 25GHz-OUT 4-Pin Die Tray

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

Images are for reference only

Inquiry

General Description

The HMC448 die is a x2 active broadband frequency multiplier chip utilizing GaAs PHEMT technology. When driven by a 0 dBm signal, the multiplier provides +11 dBm typical output power from 19 to 25 GHz. The Fo and 3Fo isolations are >22 dBc up to 22 GHz. This multi-rate frequency multiplier can be used in the generation of a half rate clock for 40 Gbps systems or as part of a multiplier chain to generate a full rate 40 Gbps clock.The HMC448 is also 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 -135 dBc/Hz at 100 kHz offset helps maintain good system noise performance. All data is with the chip in a 50 ohm test fixture connected via 0.076 × 0.0127mm (3mil × 0.5mil) ribbon bonds of minimal length 0.31mm (<12mils).

Key Features

Output Power: +11 dBm

Wide Input Power Range: -4 to +6 dBm

Fo, 3Fo Isolation: >20 dBc @ Fout= 20 GHz

100 KHz SSB Phase Noise: -135 dBc/Hz

Single Supply: 5V @ 48 mA

Die Size: 1.16 × 1.20 × 0.1 mm

Application

Clock Generation Applications:

SONET OC-192 & SDH STM-64

Point-to-Point & VSAT Radios

Test Instrumentation

Military & Space

Recommended For You

HMC624ALP4E	HMC952ALP5GE	HMC361S8GE
Analog Devices, Inc	Analog Devices, Inc	Analog Devices, Inc
QFN24	QFN	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