HMC433

InGaP HBT Divide-by-4 SMT, DC - 8 GHz

Recommended for New Designs

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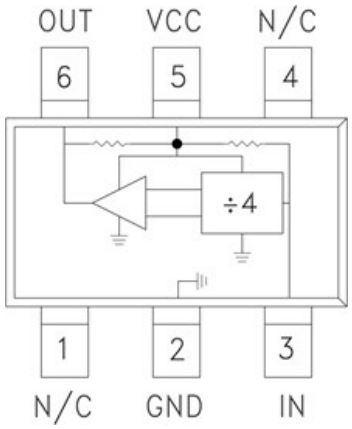

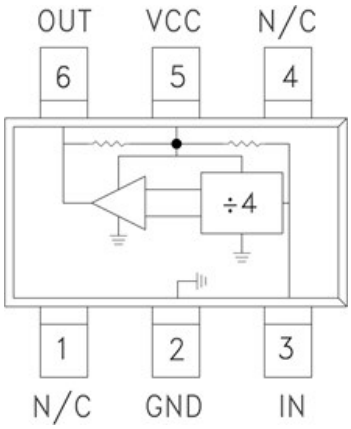

PDF Data Sheet

View All

Features and Benefits

- Ultra Low SSB Phase Noise: -150 dBc/Hz
- Single-Ended I/O's
- Output Power: -2 to -3.5 dBm
- Single DC Supply: +3V @ 53 mA
- 9 mm² Ultra Small Package: SOT26

Product Categories

RF & Microwave
- Frequency Dividers, Prescalers & Counters

Product Details

The HMC433(E) is a low noise Divide-by-4 Static Divider utilizing InGaP GaAs HBT technology in an ultra small surface mount SOT26 plastic package. This device operates from DC (with a square wave input) to 8 GHz input frequency with a single +3V DC supply. Single-ended inputs and outputs reduce component count and cost. The low additive SSB phase noise of -150 dBc/Hz at 100 kHz offset helps the user maintain good system noise performance.

Applications

- UNII, Point-to-Point & VSAT Radios
- 802.11a & HiperLAN WLAN
- Fiber Optic
- Cellular / 3G Infrastructure

Comparable Parts | Click to see all in Parametric Search

Product Lifecycle

Recommended for New Designs

This product has been released to the market. The data sheet contains all final specifications and operating conditions. For new designs, ADI recommends utilization of these products.

Evaluation Kits (1)

EVAL-HMC433 | HMC433 Evaluation Board

Documentation

1 See All | 1 Data Sheets

HMC433 Data Sheet

PDF
583.86 K

Tools & Simulations

Design Tools

ADIsimPLL™

ADIsimPLL enables the rapid and reliable evaluation of new high performance PLL products from ADI. It is the most comprehensive PLL Synthesizer design and simulation tool available today. Simulations performed include all key non-linear effects that are significant in affecting PLL performance. ADIsimPLL removes at least one iteration from the design process, thereby speeding the design- to-market.

Reference Materials

5 See All | 4 Quality Documentation | 1 Tape & Reel Specification

Quality Documentation

Quality Documentation

Quality

Semiconductor Qualification Test Report: GaAs HBT-A (QTR: 2013-00228)

Package/Assembly Qualification Test Report: Plastic Encapsulated SOT26 (QTR:...

PCN: N packag change

Design Resources

ADI has always placed the highest emphasis on delivering products that meet the maximum levels of quality and reliability. We achieve this by incorporating quality and reliability checks in every scope of product and process design, and in the manufacturing process as well. "Zero defects" for shipped products is always our goal.

HMC433 Material Declaration

PCN-PDN Information

Quality And Reliability

Symbols and Footprints

Discussions

HMC433 Discussions

Re: HMC433

HMC433

FAQ: HMC Microwave Frequency Dividers by Analog Devices

All HMC433 Discussions

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Model	Package	Pins	Temp Range	Packing Qty	Price (100-499)	Price (1000+)	RoHS	Order from Analog Devices
HMC433 Request PCN/PDN Notification Production	6 ld SOT-23	6	-40 to 85C	Reel, 50		-	N Info	Purchase
HMC433E Request PCN/PDN Notification Production	6 ld SOT-23	6	-40 to 85C	Reel, 50		-	Y Info	Sample Purchase
HMC433ETR Request PCN/PDN Notification Production	6 ld SOT-23	6	-40 to 85C	Reel, 500		-	Y Info	Sample Purchase
HMC433TR Request PCN/PDN Notification Production	6 ld SOT-23	6	-40 to 85C	Reel, 500		-	N Info	Purchase

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Price Table Help

Evaluation Boards

Pricing displayed is based on 1-piece.

Model	Description	RoHS	
105675-HMC433 Production	Evaluation Board - HMC433 Evaluation PCB		Yes

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