**HMC433**

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

- **Recommended for New Designs**

---

### 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 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
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

**Tools & Simulations**

**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**

1 See All 4 Quality Documentation 1 Tape & Reel Specification
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

HMC433 Discussions
Re: HMC433

FAQ: HMC Microwave Frequency Dividers by Analog Devices

Didn't find what you were looking for? Ask the Analog community »

Sample & Buy
<table>
<thead>
<tr>
<th>Model</th>
<th>Package</th>
<th>Pins</th>
<th>Temp Range</th>
<th>Packing Qty</th>
<th>Price (100-499)</th>
<th>Price (1000+)</th>
<th>RoHS</th>
<th>Order from Analog Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMC433</td>
<td>6 ld SOT-23</td>
<td>6</td>
<td>-40 to 85C</td>
<td>Reel, 50</td>
<td>-</td>
<td>N</td>
<td>N</td>
<td>Purchase</td>
</tr>
<tr>
<td>HMC433E</td>
<td>6 ld SOT-23</td>
<td>6</td>
<td>-40 to 85C</td>
<td>Reel, 50</td>
<td>-</td>
<td>Y</td>
<td>Y</td>
<td>Sample</td>
</tr>
<tr>
<td>HMC433ETR</td>
<td>6 ld SOT-23</td>
<td>6</td>
<td>-40 to 85C</td>
<td>Reel, 500</td>
<td>-</td>
<td>Y</td>
<td>Y</td>
<td>Purchase</td>
</tr>
<tr>
<td>HMC433TR</td>
<td>6 ld SOT-23</td>
<td>6</td>
<td>-40 to 85C</td>
<td>Reel, 500</td>
<td>-</td>
<td>N</td>
<td>N</td>
<td>Purchase</td>
</tr>
</tbody>
</table>

The USA list pricing shown is for BUDGETARY USE ONLY, shown in United States dollars (FOB USA per unit for the stated volume), and is subject to change. International prices may differ due to local duties, taxes, fees and exchange rates. For volume-specific price or delivery quotes, please contact your local Analog Devices, Inc. sales office or authorized distributor. Pricing displayed for Evaluation Boards and Kits is based on 1-piece pricing.

**Price Table Help**

**Evaluation Boards**

Pricing displayed is based on 1-piece.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>RoHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>105675-HMC433</td>
<td>Evaluation Board - HMC433 Evaluation PCB</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Pricing displayed is based on 1-piece. The USA list pricing shown is for budgetary use only, shown in United States dollars (FOB USA per unit), and is subject to change. International prices may vary due to local duties, taxes, fees and exchange rates.
Analog Devices. Dedicated to solving the toughest engineering challenges.

See the Innovations

SOCIAL

QUICK LINKS

LANGUAGES

NEWSLETTERS

Interested in the latest news and articles about ADI products, design tools, training and events? Choose from one of our 12 newsletters that match your product area of interest, delivered monthly or quarterly to your inbox.

Sign Up

© 1995 - 2017 Analog Devices, Inc. All Rights Reserved