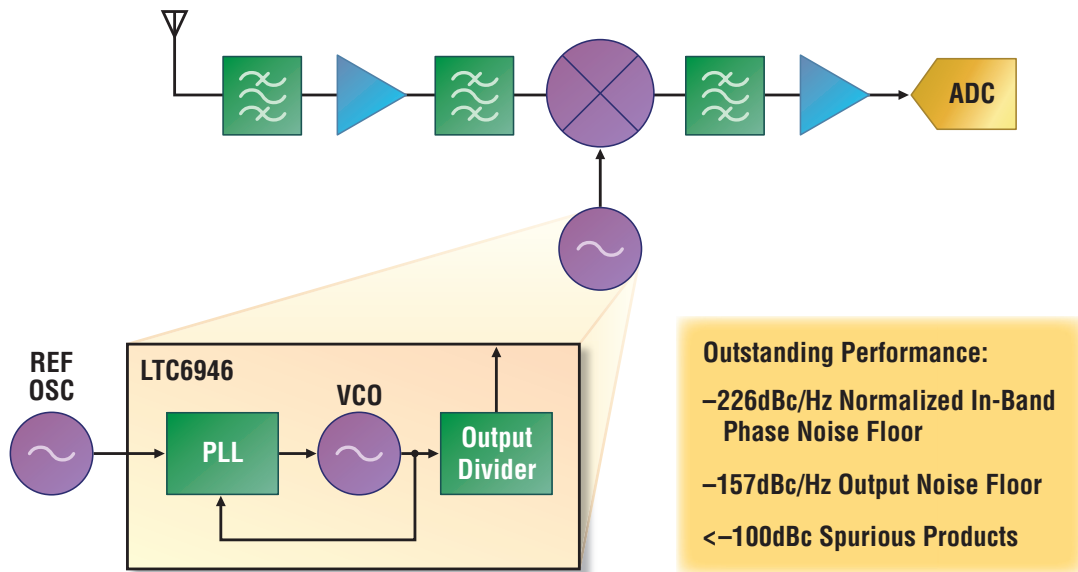


# The New Low in Frequency Synthesis



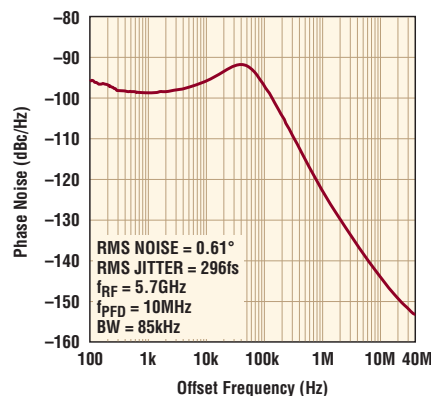
## Low Noise and Spurious Levels, 375MHz to 6GHz Frequency Synthesizers

Our new ultralow noise, integer-N frequency synthesizers provide best-in-class phase noise and spurious performance. The LTC<sup>®</sup>6945 is a low noise, low 1/f corner PLL core for use with an external VCO while the LTC6946 is a complete frequency synthesizer including a low phase noise VCO. The free, easy-to-use PLLWizard<sup>™</sup> CAD tool quickly and accurately simulates synthesizer performance to ensure an optimal design. So, creating low noise designs without performance compromises is done without losing sleep.

### Features

- Low -226dBc/Hz Normalized In-Band Phase Noise Floor
- Industry's Lowest In-Band 1/f Noise Corner
- Spurious Levels <-100dBc
- High Current 11mA Output Charge Pump Minimizes Loop Compensation Thermal Noise
- Programmable Output Divider for Wide Operating Frequency Range

### Closed-Loop Phase Noise



### Info & Free Samples

[www.linear.com/product/LTC6946](http://www.linear.com/product/LTC6946)  
 1-800-4-LINEAR



[www.linear.com/PLL](http://www.linear.com/PLL)

LT, LT, LTC, LTM, Linear Technology and the Linear logo are registered trademarks and PLLWizard is a trademark of Linear Technology Corporation. All other trademarks are the property of their respective owners.

