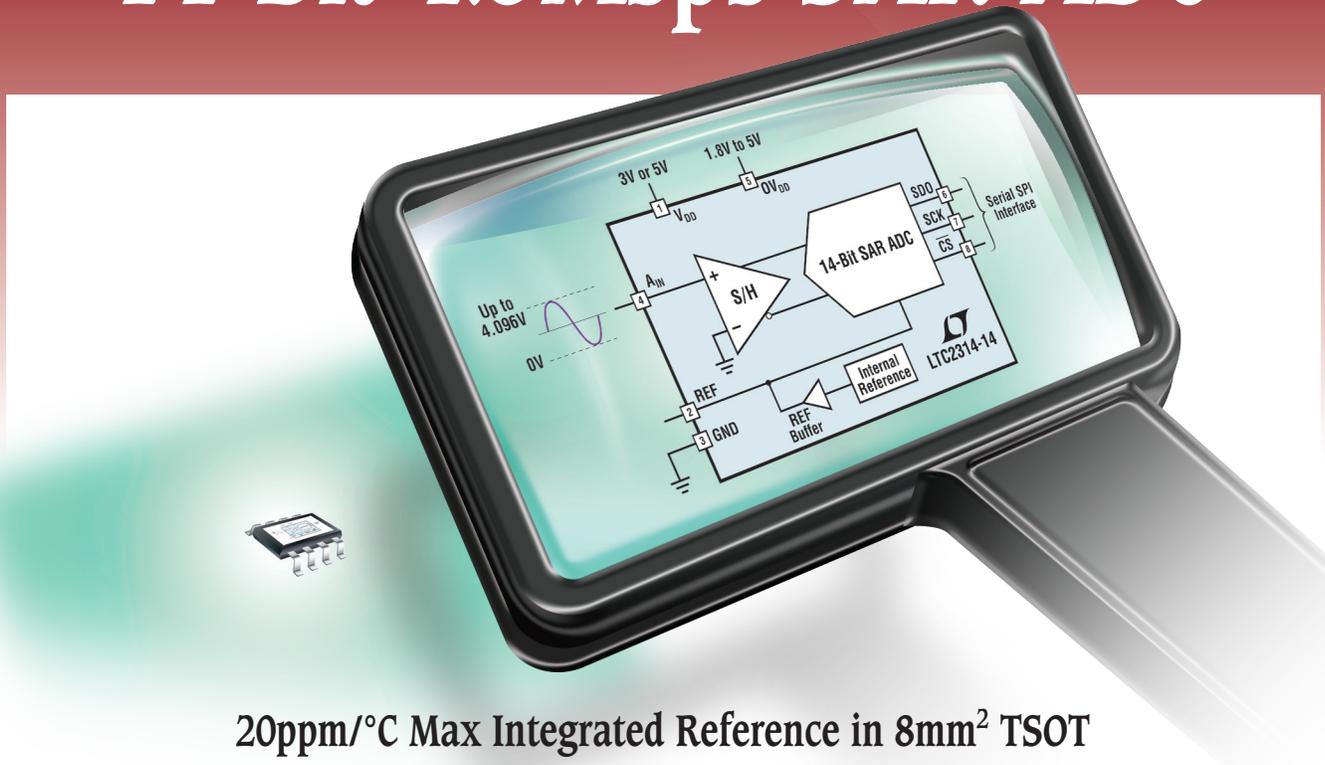


# Tiny All-in-One 14-Bit 4.5Mps SAR ADC



## 20ppm/°C Max Integrated Reference in 8mm<sup>2</sup> TSOT

The LTC<sup>®</sup>2314-14 leads a family of highly integrated 14-/12-bit Successive Approximation Register (SAR) ADCs from 500ksps to 5Mps, available in tiny 8-lead TSOT-23 packages. These ADCs integrate a precision bandgap reference with guaranteed 20ppm/°C maximum temperature coefficient and an internal reference buffer in an 8mm<sup>2</sup> footprint, saving space in high density designs. They offer the flexibility of 3V or 5V supply operation and low power consumption, including nap and sleep modes.

### ▼ Features

- 4.5Mps Throughput Rate
- Low Noise: 77.5dB SNR, -85dB THD (5V Supply)
- ±3.75LSB INL, ±0.99LSB DNL Max (5V Supply)
- Low Power: 31mW at 4.5Mps (5V Supply)
- Flexible 3V or 5V Supply Operation
- Internal Reference: 2.048V or 4.096V Span
- Guaranteed Operation -40°C to 125°C
- 8-Lead TSOT-23 Package

### ▼ Complete 14-Bit/12-Bit Pin-Compatible SAR ADC Family

	500ksps	2.5Mps	4.5Mps	5Mps
14-Bit	2312-14	2313-14	2314-14	
12-Bit	2312-12	2313-12		2315-12
Power Consumption 3V/5V	8mW/14mW	14mW/26mW	18mW/31mW	19mW/32mW

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Info & Free Samples  
1-800-4-LINEAR  
[www.linear.com/LTC2314-14](http://www.linear.com/LTC2314-14)

