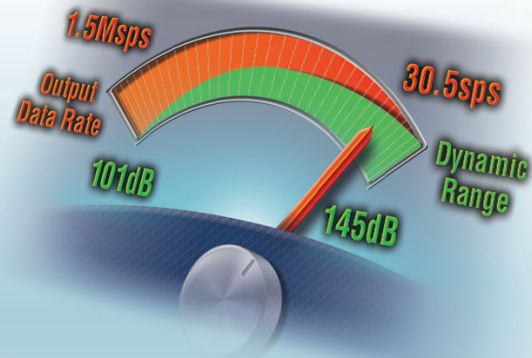
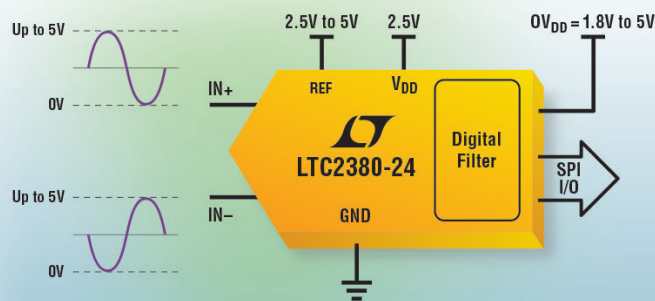


24-Bit 2MSPS SAR ADC 145dB Dynamic Range



Digital Averaging Filter Simplifies Interfacing to μ Processors

The LTC[®]2380-24 is a breakthrough no latency 24-bit 2MSPS SAR ADC. An integrated digital filter reduces noise to achieve true 24-bit dynamic range. The LTC2380-24 features a unique digital interface, enabling results to be read with a slow serial clock, easing interfacing to microprocessors. The LTC2380-24 targets industrial and instrumentation applications requiring high dynamic range.

▼ Features

- Guaranteed 24-Bit No Missing Codes
- Integrated Digital Filter
- 101dB Dynamic Range (Typ) at 1.5MSPS
- 145dB Dynamic Range (Typ) at 30.5Sps
- ± 0.5 ppm INL (Typ)
- -117 dB THD (Typ) at $f_{IN} = 2$ kHz
- Low Power: 28mW at 2MSPS
- 50Hz/60Hz Rejection
- Single 2.5V Supply
- 16-Lead MSOP and 4mm \times 3mm DFN Packages

www.linear.com/product/LTC2380-24
1-800-4-LINEAR

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▼ DC Histogram 200nV_{RMS} Noise at 30.5Sps

