24-Bit 2Mmps SAR ADC
145dB Dynamic Range

Digital Averaging Filter Simplifies Interfacing to μProcessors

The LTC®2380-24 is a breakthrough no latency 24-bit 2Mmps 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 1.5Mmps
- 145dB Dynamic Range (Typ) at 30.5sps
- ±0.5ppm INL (Typ)
- −117dB THD (Typ) at fIN = 2kHz
- Low Power: 28mW at 2Mmps
- 50Hz/60Hz Rejection
- Single 2.5V Supply
- 16-Lead MSOP and 4mm × 3mm DFN Packages

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