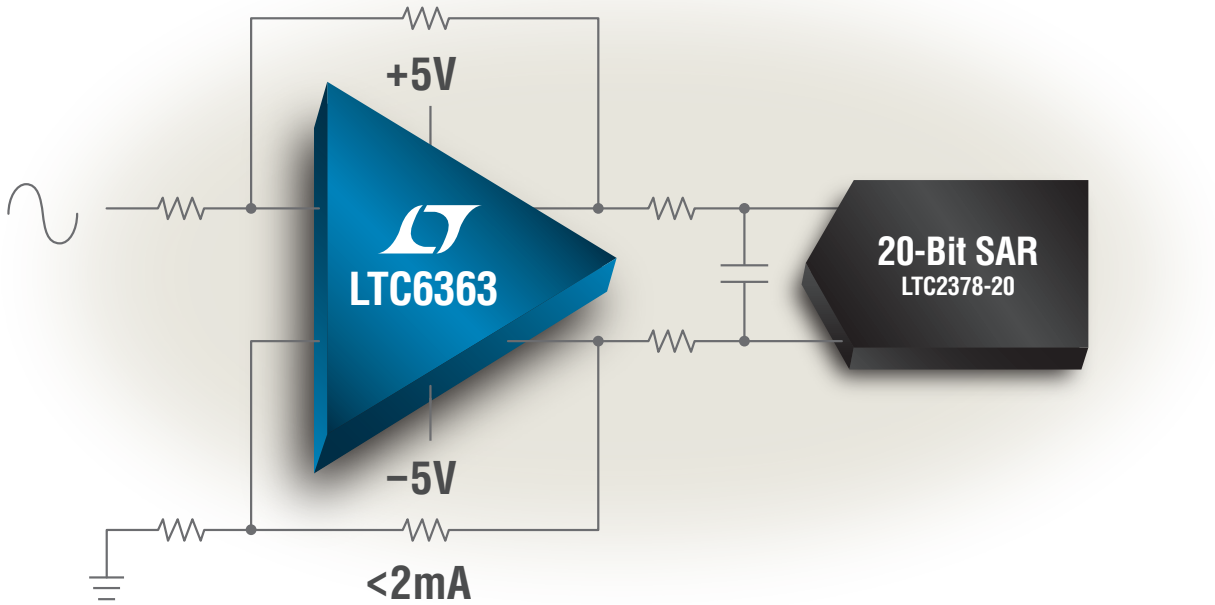
20-Bit SAR ADC Driver

Fast, Accurate Data Acquisition



Drive your precision ADC with the power efficient LTC®6363. Drawing just 1.9mA, this fully differential amplifier achieves 100µV max input offset voltage and 2.9nV/√Hz broadband noise. With a 2.8V to 11V supply range and rail-to-rail outputs, the LTC6363 is well matched to the ADC's full range, to achieve maximum signal path performance.

Features

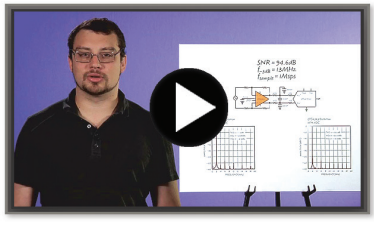
- 100µV Max Offset
- 50nA Max Input Offset Current
- Fast Settling: 780ns to 18-Bit, $8V_{P-P}$ Output
- 1.9mA Supply Current
- 2.9nV/√Hz Input-Referred Noise
- 35MHz -3dB Bandwidth
- 2.8V to 11V Supply Range

Recommended Signal Chain Products
ADCs
LTC2380-24: 1.5Msps, 24-Bit, Digital Filter
LTC2378-20: 1Msps, 20-Bit, Low Power
LTC2373-18: 1Msps, 18-Bit, 8-Channel
LTC2387-18: 15Msps, 18-Bit
Voltage References
LT6657: 1.5ppm/°C Drift
LTC6655: 0.25ppm$_{P-P}$ Noise
LT6654: SOT-23
Matched Resistors
LT5400: Quad, 0.01% Matching

Info & Free Samples

www.linear.com/product/LTC6363

1-800-4-LINEAR



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