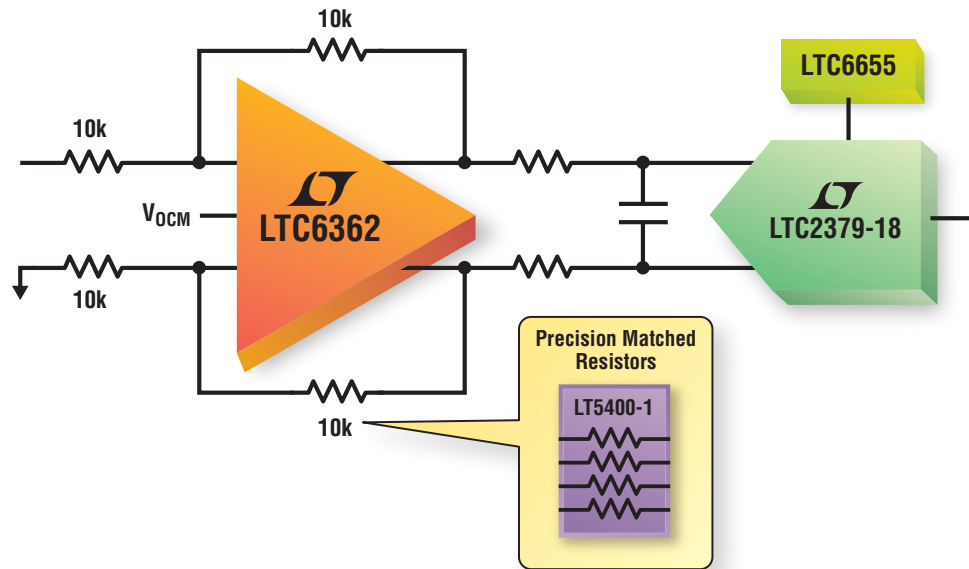


5mW 18-Bit SAR Driver



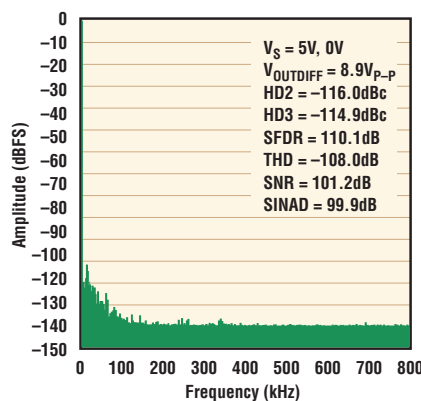
Fast, Low Power Data Acquisition

Achieve high precision on a tight power budget with the LTC[®]6362. Designed to drive 16- and 18-bit SAR ADCs on a single 5V 1mA supply, this fully differential amplifier features 200 μ V max V_{OS} , input-referred voltage noise of just $3.9V/\sqrt{Hz}$, -116dBc distortion at 1kHz, and 18-bit settling in 550ns. The LTC6362 easily scales and shifts AC- or DC-coupled signals to the input range of the ADC. It is ideal for driving the 18-bit 1.6MSPS LTC2379-18 ADC with a digital gain compression feature that sets the full scale range to 10% to 90% of the reference voltage. For optimal system performance, the LT[®]5400 precision matched resistors maintain high accuracy over temperature and common mode voltage range.

▼ Differential SAR ADC Amps

Part Number	Description
LTC6362	5mW, 18-bit settling in 550ns
LT6350	$\pm 5V$, 1.9nV/ \sqrt{Hz} , integrated resistors
LTC6247	1mA, 180MHz GBW
LTC6253	3.5mA, 720MHz GBW
LT6203	3.5mA, 100MHz GBW, 1.9V/ \sqrt{Hz}
LT6201	165MHz GBW, 0.95nV/ \sqrt{Hz}
LT1469	90MHz GBW, 75 μ V max V_{OS}

LTC6362 Driving the LTC2379-18



▼ Info & Free Samples

www.linear.com/product/LTC6362

1-800-4-LINEAR



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