



Figure 9 This switched-gain, 10-MHz, -3-dB ac preamplifier preserves the LTC1968's 500-kHz, 1%-error bandwidth. The decade-ranged gains allow a 1-mV full-scale reading with a 20- μ V noise floor. The JFET-input stage provides high input impedance. AC coupling and a third-order Sallen-Key filter maintain 1% accuracy down to 10 Hz.