

Quadrature Demodulator



The AD8348 high performance broadband quadrature demodulator is designed to enable IF-to-baseband conversion from 50 MHz to 1 GHz. In addition to the demodulator, which includes a dual mixer core and local oscillator phase splitter, the AD8348 integrates a 45 dB linear-in-dB variable-gain amplifier (VGA) and single-ended to differential amplifiers for driving baseband ADCs. With high linearity, excellent amplitude/phase balance, and 60 MHz demodulation bandwidth, the AD8348 enables most high-order modulation formats, including QAM, QPSK, and 8-PSK. It is specified for use over the -40°C to $+85^{\circ}\text{C}$ temperature range.

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<http://www.wirelessdesignmag.com/product-releases/2003/03/quadrature-demodulator>