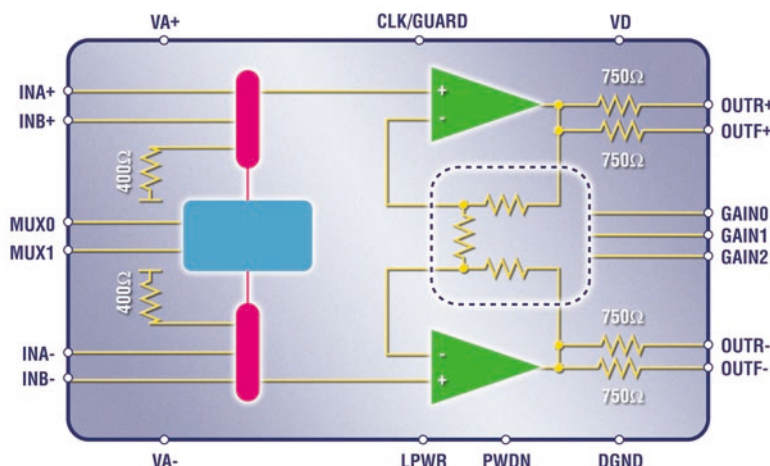


Low Noise & Low Power. New Seismic Amplifiers Deliver Outstanding Price/Performance Combination.

CS3301/02 Features

- Signal bandwidth: DC to 2,000 Hz
- Max signal amplitude: 5 Vp-p differential
- High performance
 - Outstanding noise performance
 - CS3301
 - 0.20 $\mu\text{Vp-p}$ between 0.1 Hz and 10 Hz
 - 8.5 $\text{nV}/\sqrt{\text{Hz}}$ from 0.1 Hz to 2 kHz
 - CS3302
 - 1 $\mu\text{Vp-p}$ between 0.1 Hz and 10 Hz
 - 8.5 $\text{nV}/\sqrt{\text{Hz}}$ from 200 Hz to 2 kHz
 - Low total harmonic distortion
 - -118 dB THD typical (0.000126%)
 - -112 dB THD maximum (0.000251%)
 - Low input bias
 - CS3301, 500 pA
 - CS3302, <1 pA
 - Low drift: 0.05 $\mu\text{V}/^\circ\text{C}$ max
- Low power consumption
 - Normal/LPWR/PWDN: 5.25 mA, 3.5mA, 10 μA
- High integration
 - Selectable gain: x1, x2, x4, x8, x16, x32, x64
 - Differential inputs, differential outputs
 - Multiplexed inputs: INA, INB, 800 Ω termination
- Single or dual power supply configurations
 - VA+ = +5 V; VA- = 0 V; VD = +3.3 V to +5 V
 - VA+ = +2.5 V; VA- = -2.5 V; VD = +3.3 V
- Available in a 24-pin SSOP package
- CS3301/02 price: \$8.88 (10 K)



Delivering low noise, high performance, and a small footprint, the CS3301/02 seismic amplifiers are designed for use with geophone and hydrophone sensors. These highly integrated, programmable-gain differential amplifiers are engineered for precise low frequency, high dynamic range measurements. Based on Cirrus' patented Multipath™ amplifier architecture, these powerful amplifiers provide unrivaled noise and drift performance. Low power consumption combined with -118 dB THD performance makes them ideal for today's seismic applications.

Chopper stabilized and designed for use with geophone sensors, the CS3301 delivers impressive low noise, low drift performance down to 0.1 Hz. The high input impedance of the CS3302 makes it well suited for use with hydrophone sensors, while still delivering outstanding noise and drift performance.

With an extensive feature set and available in a 24-pin SSOP package, these amplifiers provide an outstanding price/performance combination for seismic applications.