



Avago Technologies Introduces Isolation Amplifiers with Increased Accuracy for Motor Drivers and Renewable Energy Power Converters

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Small-Footprint Optical Devices Deliver Fast Response Times and Extended Working Voltage

SAN JOSE, Calif. & SINGAPORE, Jan 25, 2011 (BUSINESS WIRE) -- Avago Technologies (Nasdaq:[AVGO](#)), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced new precision optical isolation amplifiers for motor control and current sensing applications. The [ACPL-790B](#), [ACPL-790A](#) and [ACPL-7900](#) devices improve the accuracy and response times of the Avago isolation amplifier portfolio, while addressing compact applications with a smaller footprint package design. The high-precision isolation amplifiers are ideal for current and voltage sensing in AC and brushless DC motor drives, industrial inverters, servo motor drives, wind power generation, solar panel power systems and general analog isolation.

As current flows through the external resistor in a motor drive implementation, the resulting analog voltage drop is sensed by an ACPL-790B/790A/7900 isolation amplifier, and it allows a proportional output voltage to safely be created on the other side of the optical isolation barrier. Competing solutions based on Hall Effect technology and current transformer technology suffer electrical parameter variation over temperature fluctuations and require a larger footprint in a design. The ACPL-790B precise isolation amplifier provides up to 0.5% high gain accuracy, and offer 200 kHz bandwidth and 1.6 s fast response time to enable capture of transient signals in short circuit and overload conditions. The devices operate from a single 5V supply that is compatible with 3.3V outputs. This performance is delivered in a compact DIP-8 package that is suitable for automated assembly and meets worldwide regulatory safety standards.

Additional ACPL-790B/790A/7900 Product Features

- High gain tolerance options: $\pm 0.5\%$ (ACPL-790B), $\pm 1\%$ (ACPL-790A), and $\pm 3\%$ (ACPL-7900)
- Extended temperature operation: -40°C to 105°C
- Compliant to UL 1577 5000 Vrms/1 minute rating, IEC/EN/DIN EN 60747-5-5 and CSA industrial safety standards
- 15 kV/s common-mode transient immunity for less torque ripple in motor control applications
- Sigma-Delta analog-to-digital converter technology for accurate current measurement from different phases of motor
- 60 dB signal-to-noise ratio for stability needed in noisy motor control environments

U.S. Pricing and Availability

The Avago ACPL-7900 series of precise isolation amplifiers is priced starting at \$3.38 each in 10,000 piece quantities. Samples and production quantities are available now through the Avago direct sales channel and via worldwide distribution partners. More information on Avago isolation amplifiers can be found at www.avagotech.com/optocouplers.

About Avago Technologies

Avago Technologies is a leading supplier of analog interface components for communications, industrial and consumer applications. By leveraging its core competencies in III-V compound and silicon semiconductor design and processing, the company provides an extensive range of analog, mixed signal and optoelectronics components and subsystems to approximately 40,000 end customers. Backed by strong customer service support, the company's products serve four diverse end markets: wireless communications, wired infrastructure, industrial and automotive electronics, and consumer and computing peripherals. Avago has a global employee presence and heritage of technical innovation dating back nearly 50 years to its Hewlett-Packard roots. Information about Avago is available on the Web at www.avagotech.com.

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