



New Avago Technologies LEDs Raise the Bar for Viewing-Quality of Electronic Signage and Full-Color Displays

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Market's Brightest Oval Through-Hole LED Series Reduce Power Consumption and Feature Matched Radiation Pattern for Consistent Light from All Angles

SAN JOSE, Calif. & SINGAPORE, Jul 05, 2011 (BUSINESS WIRE) --

Avago Technologies (Nasdaq:[AVGO](#)), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced three series of high-brightness oval through-hole LEDs that set a new performance standard for electronic signage applications. The new [HLMP-Lx75](#), [HLMP-Hx74/75](#) and [HLMP-Ax74/75](#) LEDs deliver industry-leading brightness for oval through-hole LEDs, reducing the current required to drive systems. The LEDs' matched RGB radiation pattern is designed to maintain consistent light and uniform color mixing from all viewing angles. This combination enables sharper viewing quality with lower power consumption for full-color signage such as billboards, stadium video screens, building video walls, as well as for simpler roadway and commercial signage.

The HLMP-Lx75 and HLMP-Hx74/75 LED series offer a typical viewing angle of 40 by 100 degrees, while the HLMP-Ax74/75 LEDs offer 30 by 70 degrees. The wide typical viewing angles and the high luminous intensity of the LEDs deliver optimal performance for outdoor applications. The package epoxy of the LEDs contains UV inhibitor to reduce the effects of long-term exposure to direct sunlight, and the package also offer superior resistance to moisture, providing enhanced durability for outdoor environments. Avago provides design flexibility with the option of shipping tight color and intensity bins, up to 4 nm per bin for the new blue and green LEDs.

"Our customers already recognize the quality Avago LEDs bring to full-color electronic signage applications, and we believe these new offerings will add to our reputation and success in this quickly growing market," said Francis Khor, director of marketing for the optoelectronics products at Avago. "These efficient and durable new LEDs provide superior viewing performance, along with cost savings realized from lower power consumption and reduced maintenance."

The new red AlInGaP LEDs are available at 626-nm dominant wavelength, and the new green InGaN and blue InGaN LEDs are available at 530-nm and 470-nm, respectively. The maximum luminous intensity at 20 mA of the new LEDs is as follows (measured in millicandelas):

- 4 mm standard oval HLMP-Lx75 LEDs: Red - 2400, Green - 6050 and Blue - 1660
- 5 mm standard oval HLMP-Hx74/75 LEDs: Red - 2400, Green - 6050 and Blue - 1380
- 5 mm mini oval HLMP-Ax74/75 LEDs: Red - 4200, Green - 7260 and Blue - 1990

Additional HLMP-Lx75, HLMP-Hx74/75 and HLMP-Ax74/75 Features

- Standoff packages for all series and non-standoff packages for HLMP-Hx74/75 and HLMP-Ax74/75 LEDs
- Lead-Free and RoHS 6 compliant
- Tinted and diffused
- Operating temperature range of -40° to +100° C for red LEDs and -40° to +85° C for green and blue LEDs
- Electro-static discharge sensitivity: JEDEC Class 1C HBM

U.S. Pricing and Availability

The green and blue HLMP-Lx75, HLMP-Hx74/75 and HLMP-Ax74/75 LEDs are priced at \$0.21 each in minimum quantities of 2,000 pieces, and the red LEDs are priced at \$0.12 each in minimum quantities of 2,000 pieces. Samples and production quantities are available now through the Avago direct sales channel and via worldwide distribution partners.

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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