

The Avago Advantage



Avago Technologies Solutions for **Electronic Signs & Signals**



Your Imagination, Our Innovation
Sense • Illuminate • Connect

Avago Technologies Solutions for Electronic Signs & Signals

Avago LEDs are optimized for Electronic Sign and Signal applications by meeting IPx6 compliance standards, MSL 2A rating, and color sorting (Flexi S11) to ensure color consistency. Avago also shipped the world's first High Brightness SMT LED designed and optimized for Full Color outdoor signs. These SMT LEDs feature a water resistant design that makes them ideal for most environmental conditions and applications. In addition to our PLCC LEDs we offer a complete portfolio of High Brightness 4 and 5 mm products high-brightness through hole lamps. Our Superbright ALLnGaP series is the brightest LED in the world for monochromatic sign applications.



Communication Interface I/O Controller – Optical Receivers Transmitters/Transceivers

Avago fiber optic transmitter/receivers are designed to operate reliably for data transmission over fiber in applications where the highest electrical isolation between the transmitter and receiver sides is needed. Due to the insensitivity of the fiber to electromagnetic radiation, they are suitable for use in EMI-polluted surroundings. Solutions are available for lower bandwidth data as well as high-bandwidth full motion HD video applications

Featured Products

- Plastic Optical Fiber Transmitters & Receivers (Distances to 100m)
- Glass Optical Fiber Transmitters & Receivers (Distances to 5000m)
- Four-Channel, 40 Gbps, QSFP Pluggable Parallel Fiber-Optic Transceiver

Electronic Signs and Signals

Avago High Brightness Tricolor PLCC LEDs are optimized for Electronic Sign and Signal applications by meeting IPx6 compliance standards with high luminous output. Avago shipped the world's first High Brightness SMT Lamps designed and optimized for Full Color Signs, VMS Signs and Traffic signs. These SMT Lamps are compatible with industrial reflow soldering processes. In addition to our High Brightness PLCC-4 and PLCC-6 LEDs and SMT Lamps, we offer a complete portfolio of High Brightness Round and Oval through-hole products. Our Extra Bright AllnGaP series is the brightest LED in the world ideal for mono color sign applications.



Extra Bright 5mm Round AllnGaP and InGaN Through-Hole LEDs

Features

- High luminous output
- Superior resistance to moisture
- Untinted lens
- Viewing angle: 15°, 23°, 30°
- With or without lead standoff
- Low Vf (1.8V – 2.4V) for AllnGaP

Featured Products

- 5mm round amber/ red orange/ red
- 5mm round green and blue

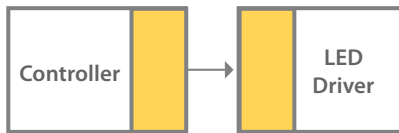
*Extra Bright 5mm Round AllnGaP and InGaN Through-Hole LEDs
High Brightness Through-Hole Oval Lamps
High Brightness SMT Round and Oval Lamps*

Variable Message Signs
Traffic Signs
Portable Solar Signs
Gas Price Signs

*High Brightness Tricolor PLCC-6 LED
High Brightness Tricolor PLCC-4 LED
High Brightness Through-Hole Oval Lamps
High Brightness SMT Round and Oval Lamps*

Full Color Signs
Mono Color Signs

Fiber Optic Transmitters/Receiver



Signal Source

High Brightness SMT Round and Oval Lamps

Features

- Compact form factor with well defined spatial radiation pattern
- High Brightness Material available in Red, Green, Blue and Amber
- Moisture sensitivity level (MSL) 2A
- Compatible with industrial reflow soldering process
- Lens features:
Tinted for Round
Tinted and Diffused for Oval

High Brightness Through-Hole Oval Lamps

Features

- Matching RGB radiation pattern
- Superior resistance to moisture
- Tinted Diffused
- Available in Red, Green, Blue, Amber and Red Orange

Featured Products

- 4mm 50 x 100 Red/ Green/ Blue / Amber/ Red Orange
- 5mm 40 x 100 Red/ Green/ Blue / Amber/ Red Orange
- 5mm 30 x 70 Red/ Green/ Blue / Amber/ Red Orange

High Brightness Tricolor PLCC-6 LED

Features

- Industry Standard PLCC-6 package with individual addressable pin out for higher flexibility of driving configuration
- IPX6 compliance
- 3.4mm(L) x 2.8mm(w) x 1.8mm(T)
- Wide viewing angle 120°
- Moisture sensitivity level (MSL) 2A
- Available in black surface, full black body and white surface

High Brightness Tricolor PLCC-4 LED

Features

- Full black body and black surface package
- IPX6 compliance
- 3.6mm(L) x 3.2mm(w) x 2.0mm(T)
- Moisture sensitivity level (MSL) 2A
- Wide viewing angle 120°



Your Imagination. Our Innovation



Avago Technologies is a leading designer, developer and global supplier of a broad range of analog, mixed signal and optoelectronics components and subsystems with a focus in III-V compound semiconductor design and processing. Backed by an extensive portfolio of intellectual property, Avago products serve three primary target markets: wireless communications, wired infrastructure, and industrial and other. Avago has a global employee presence and heritage of technical innovation dating back 50 years to its Hewlett-Packard roots.

Avago products serve three diverse end markets

Wireless Communications serving the smartphone/handset and Base Station infrastructure markets with leading-edge products that include:

- Power Amplifiers
- Front End Modules
- Film Bulk Acoustic Resonator (FBAR) Filters
- GPS/GLONASS LNAs
- Optical Finger Navigation
- LED Backlighting, Screen Illumination
- Ambient Light and Proximity Sensors

Wired Infrastructure for switches/routers, data centers, supercomputers and storage/servers with products that include:

- 168Gb Parallel Optic Arrays
- 28Gb SerDes ASICs in 28nm
- Storage Fibre Channel Transceivers
- QSFP+/SFP+ Ethernet Transceivers

Industrial and Other for alternative energy power generation, electronic sign and signals, automated manufacturing, automotive lighting, GPS/GLONASS navigation, motor inverter system, battery charging and management, infotainment systems and vehicle safety systems with products that include:

- Inverters
- Isolation and Digital Optocouplers
- Motion Control Optical & Magnetic Encoders
- Polymer Optical Fiber
- Indicator and Display LEDs



Contact us for your design needs at: www.avagotech.com

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