UV LED Curing Solutions for Printed Electronics Applications

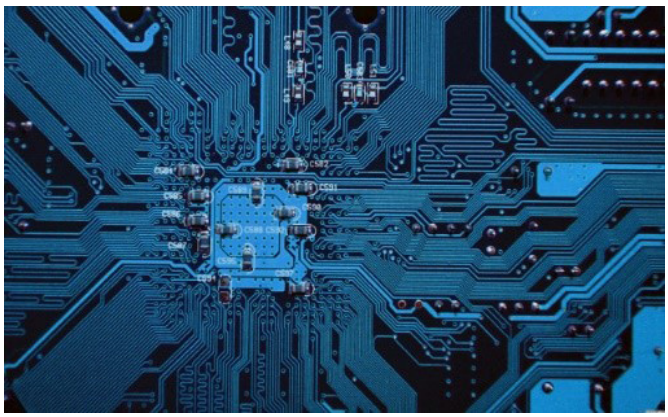
Improving Production Efficiencies with Better Technology

UV LED curing technology is a great fit for printed electronics in applications such as conformal coatings, display coatings and adhesives

UV LED offers significant advantages over traditional UV curing for printed electronics, including less space, maintenance and downtime which translates into higher productivity rates, less scrap and higher quality end products at lower costs. The use of traditional UV lamps to cure coatings on heat-sensitive substrates such as PCBs and flexible plastics can result in deformation. UV LEDs produce significantly less heat, enabling coating of heat-sensitive substrates. Due to narrow, high UVA wavelength, UV LEDs produce significantly less heat. This high UVA wavelength also allows for a more penetrative cure which is an advantage when faced with thicker sections.

Advantages over Mercury UV:

- High UV-A wavelength will reduce heat related damage to materials and substrates
- High UV-A is excellent for curing thick sections
- Controllable power output
- Instant on/off
- Available in 385/395/405 and 365nm wavelengths



UV LED Curing Applications:

Screen printed electronics

Ink Jet printed electronics

Conformal (electronics) coatings

UV LED Curing Solutions

Our UV LED curing solutions are the most reliable on the market. Starting from 2002 in Portland Oregon USA, Phoseon Technology foresaw the value of LEDs for Industrial Curing applications. With over 300 patents worldwide, Phoseon has earned the reputation for technological innovation, quality and reliability. As the market leader with the broadest portfolio of UV LED units offerings for our key markets, we welcome the opportunity to work jointly with you in developing further innovative solutions.

UV LED curing technology is ideally suited for electronic assembly applications. The unique combination of high-energy UV LED sources with the appropriate adhesive provides increased productivity, while also providing the ability to cure heat sensitive materials. Many electronic product manufacturers are already reaping the benefits of using UV LED curing to improve their manufacturing processes.

FireEdge™ FE410 Light Source

- Emitting window sizes: 80, 120, 160, 180, 240x10mm
- Cooling: Air cooled
- Power: 10W/cm²
- Small form factor
- TargetCure & WhisperCure technologies
- Optics Options (Rod Lens & Flat Glass)
- Analog control
- Instant On/Off control/cure
- 20,000+ curing hours

FireJet™ FJ100 Light Source

- Emitting window sizes: 75, 150, 225, 300x20mm
- Cooling: Air cooled
- Power: 12W/cm²
- TargetCure & WhisperCure technologies
- Scalable
- Digital/analog control
- Small form factor
- Instant On/Off control/cure
- 20,000+ curing hours

Made in the U.S.A.

Contact Phoseon Today!

+1 503 439 6446
7425 NE Evergreen Parkway
Hillsboro, OR 97124 **USA**
info@phoseon.com
www.phoseon.com

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