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EPIGAP OSA Photonics GmbH

Köpenicker Str. 325 | Haus 201
12555 Berlin | Germany
U. S. Contact: Russ Dahl
Phone: +1 602-339-7070
E-mail: r.dahl@epigap-osa.de
Web Site: www.epigap-osa.de

Media Contact: Marlene Moore

Smith Miller Moore
Phone: 818-708-1704
www.smithmillermoore.com
info@smithmillermoore.com

For Immediate Release

EPIGAP OSA Introduces Groundbreaking SMD SWIR LEDs with Highest Output Power Available in the Market

- Company to showcase highest output power SMD SWIR LEDs at Laser World of Photonics in hall A2, booth 317, Munich, Germany, June 24 – 27, 2025.

Berlin, Germany – June 20, 2025 – EPIGAP OSA Photonics GmbH (www.epigap-osa.de), a leading global manufacturer and innovator of custom and standard LEDs and photodetectors, announces a significant breakthrough in surface-mount device (SMD) shortwave infrared (SWIR) LED technology, delivering more output power than is currently available in today's market.



The company's new **OCI-460 SWIR LED** series features markedly improved output power compared to the company's previous **OCI-480** package and all competitive SMD SWIR LED devices. For example, model **OCI-460 ID1550-XS** operates at 1550 nm and features drive current up to 1.5A to deliver approximately 13% higher output efficiency over EPIGAP's OCI-480 package. This impressive advancement features 96% higher output power at 1550 nm, 147mW, compared to any other SWIR SMD LED currently on the market. Other SWIR LED models in the new OCI-460 series operate at wavelengths of 1040 nm, 1200 nm, 1300 nm, and 1460 nm. Output power varies depending on the specific model.

Ideal for use in sensing, machine vision, and gas sensing, EPIGAP OSA's newly-developed SMD SWIR LED design utilizes an industry-standard 3535 footprint combining a silicone dome and ceramic package to ensure excellent thermal efficiency. Each package in the OCI-460 series integrates electrostatic discharge (ESD) protection devices for longer life and reliable performance.

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Matthias Gamp, EPIGAP OSA's CEO, notes, "We are particularly pleased to introduce the highest output power SMD SWIR LEDs at Laser World of Photonics, June 24-27, 2025, in Munich. We will have engineering samples in our hall A2, booth 317, and invite attendees to stop by for a demonstration of our newest product line. Mass production is slated for Q4 of 2025. We also proudly offer complete LED and photodetector solutions and customization, from design and development to prototyping, series production, and supply chain management. Our commitment to quality and customer service reflects the highest standards in German engineering and we welcome the opportunity to meet with you at the show and partner with you for all your LED and photodetector needs."

To learn more about EPIGAP OSA's innovative **OCI-460 SMD SWIR LEDs** with highest output power available, please go to: <https://www.epigap-osa.com/led-smd/ir-smlds/>.

To view the 1550 nm product data sheet please visit:

https://www.epigap-osa.com/datasheet/OCI-460_ID1550-XS.pdf.

ABOUT THE COMPANY:

EPIGAP OSA Photonics GmbH (www.epigap-osa.com) is an international supplier of state-of-the-art standard and custom LED chips, surface-mounted LEDs, multi-chip LEDs, customized LED modules, and photodetectors. Based on silicon carbide (SiC), silicon (Si), gallium arsenide (GaAs), and indium gallium arsenide (InGaAs) technologies, the company is a recognized leader in the innovation of photonics and LED solutions for a wide variety of industries including medical, pharmaceutical, commercial, agriculture, industrial sensing, aviation, and defense.

Our company's latest innovation is our broadband conversion SMD LEDs with operating ranges from 400 nm to 1100 nm, making them ideal for critical biomedical applications, hyperspectral imaging tasks, and more. The product series provides an affordable and desirable alternative to aging lamp technologies such as mercury, Xenon, and tungsten-halogen.

Our recently introduced high-power, shortwave infrared (SWIR) LEDs products family features ground-breaking extended operating wavelengths from >1720 nm to 2300 nm and

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industry leading output power from 1040 nm to 1550 nm. These reliable, long-lifespan, light-emitting devices are ideal for IR imaging applications through fog, dust, and smoke, materials sorting and detection, and non-intrusive imaging that enables discreet biometrics and surveillance tasks.

The complete spectral range of EPIGAP-OSA Photonics group's LEDs operate from ultraviolet (200 nm) out to SWIR (2300 nm) with high stability, durability, and reliability. Customers may select high-efficiency LEDs according to chip size, optical output, and electrical parameters with an accuracy of up to ± 3 nm to meet their most demanding specifications.

We are proud to offer custom LED and photodetector services designed to meet or exceed your expectations. Ask about our complete, end-to-end solutions including design and development, prototyping, series production, supply chain management, and comprehensive services from component manufacturing to complex optoelectronic modules.

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