

NEWS RELEASE

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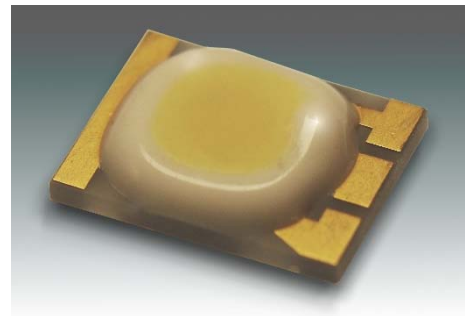
For Immediate Release

EPIGAP OSA Introduces Broadband LEDs with Extremely Wide Range from 400 nm -1100 nm

- Unique, high-power broadband SMD LEDs are ideal as replacements for lamp technologies that are phasing out.

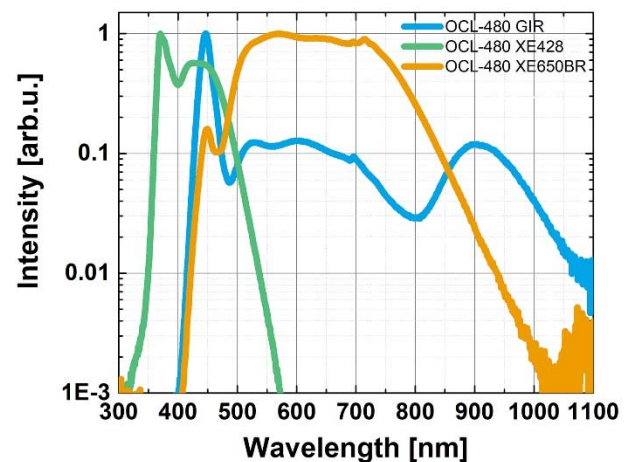
Berlin, Germany – December 17, 2024 – EPIGAP OSA Photonics GmbH

www.epigap-osa.de), a leading global manufacturer of custom and standard LEDs and photodetectors, announces an innovative single chip broadband LED source, the **OCL-480 GIR**. EPIGAP is the sole provider of the ground-breaking broadband conversion surface-mounted devices (SMD) featuring an extremely wide spectral range. The new OCL-480 GIR emits a broad spectrum from 420 nm to 1050 nm with radiant intensity of 95 mW/sr (typical), and a viewing angle of 120 degrees. The remarkable, high-power broadband SMD LED conveniently replaces specialty lamps that produce too much heat, are obsolete, or nearing end-of-life.



The **OCL-480 XE428** model is an ideal replacement for mercury lamps. Additional devices from EPIGAP's extensive broadband conversion SMD LED product line easily replace older lighting technologies, such as Xenon and tungsten-halogen.

EPIGAP's high-power, broad spectrum LEDs are successfully used in biomedical analysis and hyperspectral imaging applications. Other uses include



NEWS RELEASE

spectroscopy, agricultural analysis and food illumination, medical research and tissue analysis, environmental monitoring, security, and more.

Matthias Gamp, EPIGAP OSA Photonics group's CEO, notes, "We are proud to be the only company in the world that manufactures broadband conversion SMD LEDs with the expansive spectral range of 400 nm -1100 nm. We are excited to announce this family of products because it provides an ideal solution for replacing a large variety of older lamps that are near end-of-life or becoming obsolete. Our newest offering combines with our vast LED and photodetector product lines to reflect our ongoing commitment to manufacturing products with German engineering excellence. We are delighted to offer this new broadband LED option to our customers and our potential customers all over the world. We invite you to partner with us for all your photodetector and LED needs."

For more information about EPIGAP OSA's Broadband SMD LEDs, please download the Product Guide here: https://www.epigap-osa.com/products/leds/smd/broad-band-conversion-smd/?mtm_campaign=pr-broadband.

EPIGAP recently introduced an extraordinary line of extended SWIR wavelength LEDs with varying optical power outputs and packaging options. To learn more, please go to: https://www.epigap-osa.com/products/leds/smd/high-power-smd/?mtm_campaign=pr-swir.

ABOUT THE COMPANY:

EPIGAP OSA Photonics GmbH (www.epigap-osa.de) 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.

NEWS RELEASE

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