

Presse Press

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First multi-chip LED with a lens improves camera flash applications: the right brightness for any photo

Osram Opto Semiconductors introduces a new generation of the Oslux LED for mobile devices

There is a new addition to the Oslux family from Osram Opto Semiconductors. For the first time, two LED chips and a lens have been integrated into a module. The compact Oslux S2.1 multi-chip LED brings together all the high-tech company's extensive technical know-how into a new LED version for camera flash applications. With its brightness of 125 lux, it provides uniform illumination of photos and video recordings from mobile devices such as smartphones.

Osram Opto Semiconductors is adding the new Oslux S2.1 to its portfolio for camera flash applications. It combines two chips in different color temperatures, a cold white chip with 6,000 K and a warm white chip with 2,250 K (Dual-CCT), providing both a multi-chip LED and a lens for the first time. This not only saves a work step but also produces excellent results. With a maximum deviation of 300K, the Oslux offers remarkable color fidelity and excellent color uniformity across the target scene.

Perfect flash for the perfect photo

In video lights and camera flash applications, the integration of two LED chips and a silicone lens on one pc board offers clear benefits for the customer. Now no separate step is necessary for optimum positioning of the lens. This does not only save time but also optimizes the use of the generated light. While dimensions of 5.0 mm x 5.0 mm x 1.15 mm make the Oslux S2.1 with its lens slightly higher than predecessor models, it requires less space on the board and has a smaller exposed aperture than two single LEDs, making it impressively compact. The silicone lens also allows this module to be reflow solderable, allowing the module to be easily integrated into standard manufacturing flows.

“With the new Oslux S2.1 we were able to achieve very high quality. We have subjected it to both electrical and optically demanding testing and are very happy with the results. It definitely meets our high quality standards,” says Fiona Mak, Product Manager at Osram Opto Semiconductors.

Additional version planned for 2018

The Oslux S2.1 is already available. Osram Opto Semiconductors is planning to release an additional version in early 2018, the Oslux S2.2. Instead of a silicone lens it will come with an epoxy lens. Thanks to this extremely hard material, the Oslux S2.2 can be installed in mobile devices without a separate protective window, which provides additional industrial design options. What’s more, a spectrum optimized converter will provide the Oslux S2.2 with even better photos.

Contact information

Press contact:

Simon Thaler

Phone +49 941 850 1693

Email: simon.thaler@osram-os.com

Technical information:

Phone +49 941 850 1700

Email: support@osram-os.com

Sales contacts:

<http://www.osram-os.com/sales-contacts>



The new Oslux S2.1 from Osram Opto Semiconductors provides easier handling and improves brightness and color uniformity thanks to “Dual-CCT” LEDs.
Picture: Osram



The new generation of the Oslux S2.1, installed in camera flash applications, provides ideal illumination for flash photography, making optimum use of the generated light.
Picture: Osram

ABOUT OSRAM

OSRAM, based in Munich, is a globally leading lighting manufacturer with a history dating back about 100 years. The product portfolio includes high-tech applications based on semiconductor technology such as infrared or laser lighting. The products are used in highly diverse applications ranging from virtual reality, autonomous driving or mobile phones to smart and connected lighting solutions in buildings and cities. In automotive lighting, the company is the global market and technology leader. Based on continuing operations (excluding Ledvance), OSRAM had around 24,600 employees worldwide at the end of fiscal 2016 (September 30) and generated revenue of almost €3.8 billion in that fiscal year. The company is listed on the stock exchanges in Frankfurt and Munich (ISIN: DE000LED4000; WKN: LED 400; trading symbol: OSR). Additional information can be found at www.osram.com.