

ESCATEC solves problem of overheating high brightness LEDs

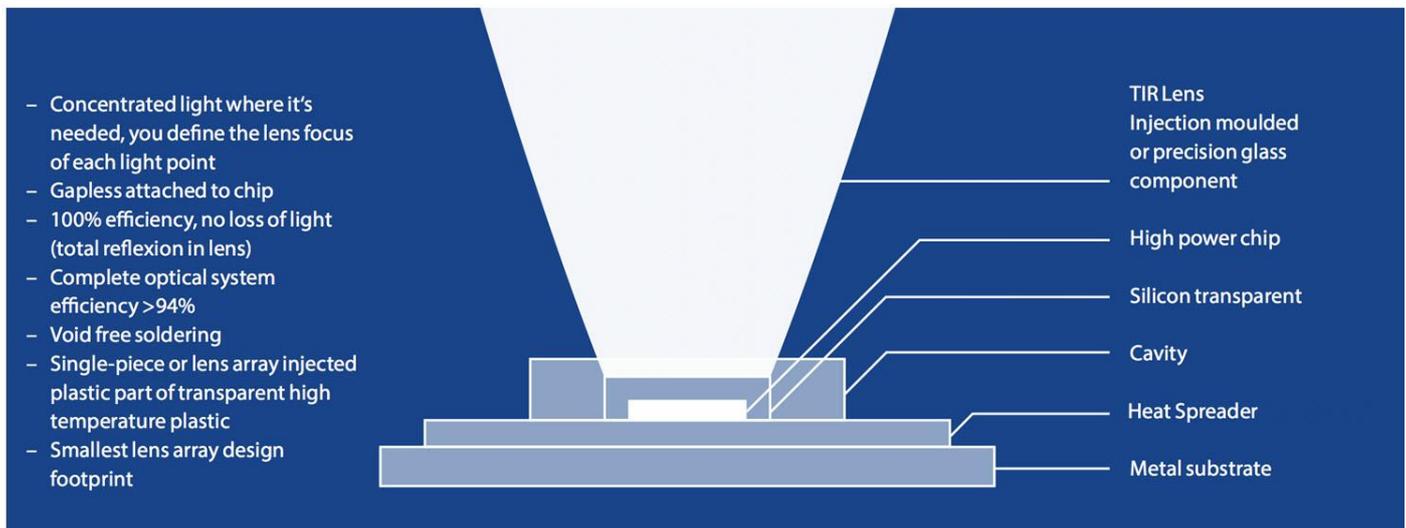
Launch at the LED Professional Symposium in Bregenz, 22-24 Sept 2015

Heerbrugg, Switzerland – 7 September 2015 – ESCATEC, one of Europe's leading providers of contract design and manufacturing services, will be launching its solution to the challenge of effectively cooling high brightness LEDs on its stand E8 at the LED Professional Symposium 2015 in Bregenz, Austria on 22-24 September 2015. <http://www.led-professional-symposium.com>

ESCATEC's **Heat Spreader** solution solders the LEDs onto a copper substrate, which is up to ten times more effective at dissipating the heat generated by the LEDs than current solutions. The design means that LEDs with a power density of up to 10W per mm² could be passively cooled.

The Heat Spreader was developed in response to a customer visit to ESCATEC's FutureLab where novel and innovative solutions are developed for LED applications. "Heat dissipation is always a challenge for LEDs as their compact size means that the LEDs can be packed close together to form a powerful illumination source but that also forms a highly concentrated heat source, for example, when a hundred 5 Amp LEDs are side by side," explained Wolfgang Plank, Manager of the FutureLab. "Our novel Heat Spreader solution opens up compact, high power LEDs of, say 1000W, to be used in many new applications such as stage lighting, architectural illumination and video projectors."

By starting from the bare LED die, ESCATEC can customise the solution with regards to the size of the package, the shape of the beam so that there are minimal losses, and the wavelength of the light along with its intensity. This freedom of design enables the LED solution to be highly efficient, appropriately cooled and optimised for the required power consumption. It also enables the lens or lens array to be custom made to provide the exact optics required by the application and ensures that design can be compact with high optical efficiency.



ESCATEC's Heat Spreader for LEDs

ESCATEC

The ESCATEC Group provides fully-integrated electronic and mechatronic design and manufacturing solutions to assist customers in achieving success in their market. Its one-stop solutions and best-in-class service enable companies around the world to operate more profitably, sustainably and efficiently. Founded in 1984, its history is full of innovation, which made it a first choice partner for many European and North American OEMs. The Swiss-owned company perfectly blends Swiss business philosophy and attention to quality, precision and detail with the advantage of low-cost, mass-volume manufacturing capabilities in its Asian factories.

Further information about ESCATEC, one of Europe's leading providers of contract design and manufacturing services: www.escatec.com enquiries@escatec.com

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