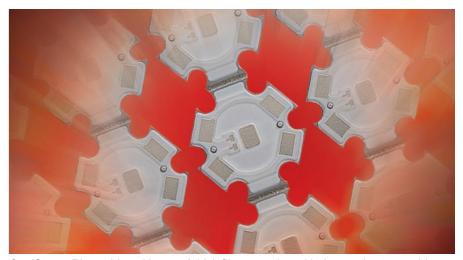


Trade Press Release

Hanau, Incheon 02.02.2015

Heraeus CoolStrates™ - Thick Film on Aluminum Thermal Substrates

For the first time, Heraeus will present the new material system CoolStrates™ at LED Korea 2015 show (February 4.–6.). Heraeus CoolStrates™ utilizes Celcion™ thick film materials to provide customers with superior thermal performance for LED circuits. CoolStrates™ combines Heraeus' thick film expertise with the service to provide ready to use, customized circuit boards, primarily for LED applications. CoolStrates™ are applicable for chip-on-heatsink, chip-on-board or standard packaging technology. The components of CoolStrates™ are recognized by Underwriter Laboratories (UL®).



CoolStrates[™] combines Heraeus' thick film expertise with the service to provide ready to use, customized circuit boards.

Able to take the same fit and form as traditional Metal Core Printed Circuit Boards (MCPCB), CoolStrates[™] provides improved thermal management, performance and cost over competing board technologies.

Additionally, CoolStrates[™] design flexibility allows for reduced module complexity by integrating the LED and driver circuitry directly on a heat sink

decreasing manufacturing steps and overall cost of the light engine. Now, a further step forward: Using proven thick film materials and a customized design layout, Heraeus is able to provide a unique package of materials:

Celcion™ + Aluminum = CoolStrates™

Presentation and demonstration

Visitors of LED Korea are encouraged to visit Heraeus booth number 4722 in hall B, where they will find demos with the new CoolStrates™ boards.

Heraeus

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Additionally Carsten Mohr (Project Manager CoolStrates™), will hold a 20 minute presentation about "Thermal Management System for High Power LEDs". Venue will be at the Heraeus booth each exhibition day at 3:20 pm.

Heraeus, the technology group headquartered in Hanau, Germany, is a leading international family-owned company formed in 1851. We create high-value solutions for our customers, strengthening their competitiveness for the long term. Our activities focus on a number of markets: chemical and metals, energy and the environment, communications and electronics, health, mobility, and industrial applications. In fiscal year 2013, Heraeus achieved product revenue of €3.6 billion and precious metals trading revenue of €13.5 billion. With some 12,500 employees in over 110 subsidiaries worldwide, Heraeus holds a leading position in its global markets.

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