

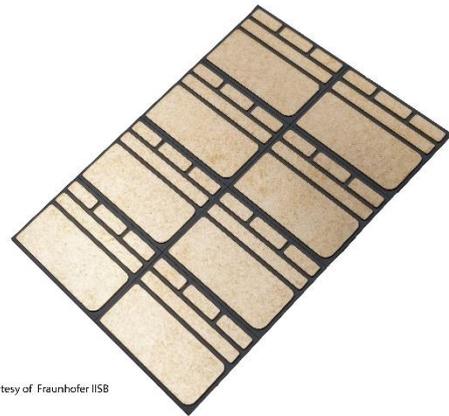
## Press Release

### Heraeus Electronics Announces Global Launch of Condura®.ultra Ag Si<sub>3</sub>N<sub>4</sub> free AMB Substrate at PCIM Europe

Heraeus Electronics today announced the launch of its new Condura®.ultra Ag free AMB Substrate. A cost-efficient, highly reliable, Ag free AMB substrate that enables bonding silicon-nitride-based ceramics with copper foils, Condura®.ultra was developed using a special technique enabling high-performance Si<sub>3</sub>N<sub>4</sub> substrates by using new, Ag free active metal brazing (AMB) bonding technology.

Heraeus Electronics announced the new product launch at the start of PCIM Europe, the leading conference and exhibition for power electronics, renewable energy and energy management in Nuremberg. In parallel to PCIM Europe, SMTconnect is held in halls 4, 4A and 5.

In an effort to better support its customers, Heraeus Electronics has introduced Condura®.ultra which is designed to offer outstanding reliability and processing (e.g., sintering, bonding, soldering). The cost-efficient high-performance **Si<sub>3</sub>N<sub>4</sub>** Ag free AMB substrate is available with standard and thick Cu layers and thermal conductivity of ≥60 W/m.K and ≥80 W/m.K.



Substrate layout courtesy of Fraunhofer IISB

With a comprehensive portfolio of metal ceramic substrates, Heraeus Electronics addresses the diverse needs of the Power Electronics segment, ranging from low-power applications up to the most demanding industries. The Condura® portfolio consists of Condura®.classic (DCB-Al<sub>2</sub>O<sub>3</sub>), Condura®.extra (DCB-ZTA), Condura®.prime (AMB-Si<sub>3</sub>N<sub>4</sub>), and the all new Condura®.ultra (Si<sub>3</sub>N<sub>4</sub> Ag free AMB).

Heraeus Electronics' metal ceramic substrates are recommended for power electronic modules (e.g., current drivetrain inverters) using MOSFETs or IGBT semiconductor devices and diodes for widespread applications in the fields of automotive, electric motor drives, UPS, power supplies, industrial automation and testing.

To learn more, visit [www.heraeus-electronics.com](http://www.heraeus-electronics.com)

#### About Heraeus

Heraeus, the technology group headquartered in Hanau, Germany, is a leading international family-owned portfolio company. The company's roots go back to a family pharmacy started in 1660. Today, the Heraeus group includes businesses in the environmental, electronics, health, and industrial applications sectors. Customers benefit from innovative technologies and solutions based on broad materials expertise and technological leadership. In the 2020 financial year, the FORTUNE Global 500 listed group generated revenues of €31.5 billion with approximately 14,800 employees in 40 countries. Heraeus is one of the top 10 family-owned companies in Germany and holds a leading position in its global markets. Heraeus Electronics, a global business unit of Heraeus, is an expert for materials and matched material solutions for the electronics packaging.

#### About Heraeus Electronics

Heraeus Electronics is a leading manufacturer of materials for the assembly and packaging of devices in the electronics industry. The company develops materials solutions for the automotive, power electronics and advanced semiconductor packaging market and offers its customers a broad product portfolio - from materials and material systems to services.

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