

## Press Release

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### **Heraeus offers new customer-focused heater packages used in e-mobility**

**NOVI, MI** – Heraeus Electronics today announces the repositioning of its heater technology portfolio. The company has established new product packages and matched material systems of thick film inks addressing the growing needs for heater applications. The updated portfolio offers design flexibility and improved reliability to better suit customer expectations.

The material sets are packaged upon substrate types and focus on the customers' desired operating temperatures, heater specifications, and design requirements – PET and polyimide packages for operating temperatures up to 250°C; aluminum and stainless-steel packages reaching higher temperatures up to 350°C; and packages for oxide and nitride ceramic substrates reliable up to 700°C.

“Matched material systems lead to faster design cycles giving our customers an advantage,” says Dean Buzby, Global Product Manager for Thick Film. “We are proud that with our new portfolio, we further improve our customer focus.”

Heraeus' heater packages enable significant technology for the automotive industry – especially for electrical vehicle battery thermal management where the products ensure thermal stability, prolonging battery lifespans. Product offerings also enable systems for cabin and comfort heating. Sensors such as Advanced Driver Assistance Systems rely heavily on thick film heaters to ensure proper operating temperatures as well as keeping lenses clear of condensation and frost. Thick film heaters provide high reliability systems with a rapid thermal response even at high operating temperatures. Furthermore, thick film technology enables manufacturers to customize form factors with very thin substrates.

Beyond Heraeus' standard portfolio, the company is able to design solutions for special applications. In the Heraeus application centers, customers can test adaptations directly and optimize them to achieve a superior product quality.

Heraeus Electronics is a major supplier into the thick film market and increasingly providing solutions into the expanding thick film heater market. Heraeus has been providing solutions for thick film for over 50 years.

**Attending The Battery Show North America in Novi, Michigan? Visit us at booth #1636 to learn more about our new heater portfolio.**

## **About Heraeus**

A globally leading technology group, Heraeus is headquartered in Hanau, Germany. Founded in 1851, it is a family-owned portfolio company which traces its roots back to a pharmacy opened by the family in 1660. Today, Heraeus combines businesses in the environmental, energy, electronics, health, mobility and industrial applications sectors.

In the 2018 financial year, Heraeus generated revenues of €20.3 billion with approximately 15.000 employees (including staff leasing) in 40 countries. Heraeus is one of the top 10 family-owned companies in Germany and holds a leading position in its global markets.

With technical expertise, a commitment to excellence, a focus on innovation and entrepreneurial leadership, we are constantly striving to improve our performance. We create high-quality solutions for our clients and strengthen their long-term competitiveness by combining unique material expertise with leadership in technology.

## **Media contact**

### **Jeffery Oddo**

Senior Manager

Tel.: +1 215 944-9981

E-Mail: [jeffery.oddo@heraeus.com](mailto:jeffery.oddo@heraeus.com)