

#PCIM

## High-performance ceramics: outstanding in power electronics

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CeramTec Industrial

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**As a supplier of technical ceramics, CeramTec will be presenting its solutions for high-performance electronics at this year's PCIM Europe. The trade fair for power electronics, intelligent drive technology, renewable energies and energy management will take place in Nuremberg from June 11th to 13th.**

- **Technical ceramics: Multiple advantages for power electronics**
- **One-stop shop: Ceramic substrates and ceramic coolers - everything from a single source**
- **Sinalit®: New substrate based on silicon nitride**

Thanks to their high thermal conductivity, excellent electrical insulation and high chemical stability, ceramic materials are ideally suited for applications with high thermal requirements – e.g. in the fields of e-mobility, heating, cooling, or the conversion of electrical energy. CeramTec will be demonstrating what technical ceramics can do in this context at its own stand (Hall 7, Stand 540).

As a European one-stop shop for high-quality ceramic substrates and ceramic coolers for power electronics, CeramTec offers its customers particular reliability and flexibility: as CeramTec produces in Europe, customers can rely not only on consistently high quality, but also on a fast and secure supply chain.

### Focus on e-mobility and energy storage

One of the fastest growing markets of our time is electromobility. Power electronics is a key technology for this. In a dedicated “E-Mobility & Energy Storage Zone”, PCIM Europe will show what power electronics for electromobility, and energy storage are capable of now and in the future. However, the demands on the individual components are also increasing with the further developments. CeramTec provides coordinated component solutions for the areas of power electronics, electric motors, cooling, and heating. CeramTec will also be presenting a new product at the trade fair: Sinalit® - a ceramic substrate based on silicon nitride. Due to its material properties (high flexural strength and fracture toughness), it is very thin and hence ideal for the compact design of individual high-performance power modules.

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The "E-Mobility & Energy Storage Stage" will feature a series of presentations on this topic, in which CeramTec expert Hans Ulrich Voeller, Senior Product Manager Ceramic Substrates, will also take part. He will speak on the topic "Driving Change: Next Generation Ceramic Substrates for Power Electronics" and highlight the advantages of individual substrates for use in high-performance electronics in vehicles. There will also be live product presentations on the same topic at the CeramTec stand, which will go into even greater technical depth.

### **Experience CeramTec at PCIM Europe**

At stand 540 in hall 7, visitors will find detailed information about the possible applications of technical ceramics. Experts from CeramTec will be available for a discussion. There will also be live presentations at the stand (Tue, June 11, 10:30 a.m. and Wed, June 12, 1 p.m.).

At the "E-Mobility & Energy Storage Stage" (Hall 6, Stand 220), Hans Ulrich Voeller, Senior Product Manager Ceramic Substrates, will give a presentation on "Driving Change: Next Generation Ceramic Substrates for Power Electronics" (Tue, June 11, 1:20 pm and Thu, June 13, 10:00 am).

CeramTec will also participate for the first time with a poster session at the parallel PCIM conference (Tue, June 11, 1:00 pm). Dr. Stefanie Schindler, Engineer Research and Development, will be available for an exchange on the topic "New Generation Ceramic Substrates - Key Components for Power Electronic Applications: Processing and Characterization".

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## Picture material

Publication free of charge // magazine copy or link appreciated.



### **CeramTec\_pcim.jpg**

As a supplier of technical ceramics, CeramTec will be presenting its solutions for high-performance electronics at this year's PCIM Europe in Nuremberg from June 11th to 13th.

**Source: CeramTec**



### **CeramTec\_Voeller.jpg**

At the "E-Mobility & Energy Storage Stage" (Hall 6, Stand 220), Hans Ulrich Voeller, Senior Product Manager Ceramic Substrates, will give a presentation on "Driving Change: Next Generation Ceramic Substrates for Power Electronics".

**Source: CeramTec**



### **CeramTec\_Schindler.jpg**

Dr. Stefanie Schindler, Engineer Research and Development, participates for CeramTec for the first time in the poster session of the PCIM conference with the topic "New Generation Ceramic Substrates - Key Components for Power Electronic Applications: Processing and Characterization".

**Source: CeramTec**

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**The following information can help you to publish this press release in your online and social media channels.**

**Meta Description**

As a supplier of technical ceramics, CeramTec will be presenting its solutions for high-performance electronics at this year's PCIM Europe in Nuremberg from June 11th to 13th.

**Social Media / Newsletter Teaser:**

**Facebook**

As a supplier of technical ceramics, CeramTec will be presenting its solutions for high-performance electronics at this year's PCIM Europe in Nuremberg from June 11th to 13th. CeramTec will also be presenting a new product at the trade fair: Sinalit® – a substrate based on silicon nitride – is particularly suitable for compact designs in high-performance power modules due to its material properties.

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### About CeramTec

CeramTec has been a manufacturer and supplier of technical ceramics with a focus on advanced ceramic (HPC) solutions since 1903 and specialises in the development, manufacture and distribution of parts, components and products made from ceramic materials. With more than a century of development and production experience in the HPC industry, CeramTec is a world leader in the manufacture of advanced ceramics and develops these materials for use in a wide range of applications. CeramTec's advanced ceramics are used in a number of areas, including medical applications such as hip prostheses, other orthopaedic implants, dental implants and medical devices, as well as in the mobility and electronics industries, and also in other industrial applications. With production sites and subsidiaries in Europe, North and South America and Asia, CeramTec has a global presence as a manufacturer and supplier. CeramTec's headquarters are located in Plochingen near Stuttgart. In 2023, CeramTec generated revenue of more than 817 million euros. CeramTec employs more than 3,800 people worldwide, including around 2,000 in Germany.

More info: [www.ceramtec-group.com](http://www.ceramtec-group.com)

