

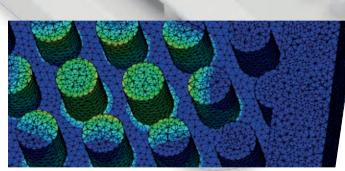
## Integrated SiC power module on ceramic heatsink

The integrated SiC power module is based on CeramTec chip-on-heatsink technology. The ceramic heatsink is a cooling structure and circuit carrier in one component, which leads to a significant increase in power density. The design of the ceramic heatsink

enables optimized cooling of the SiC semiconductors on the top of the heatsink. On the underside of the heatsink, the DC link capacitor is integrated with low inductance in the power module via metallization surrounding the heatsink.



Ceramic heatsinks metallized on both sides for the implementation of low-inductance electronic assemblies



Mechanical stress on the internal structure during the sintering process

1.7

0.6