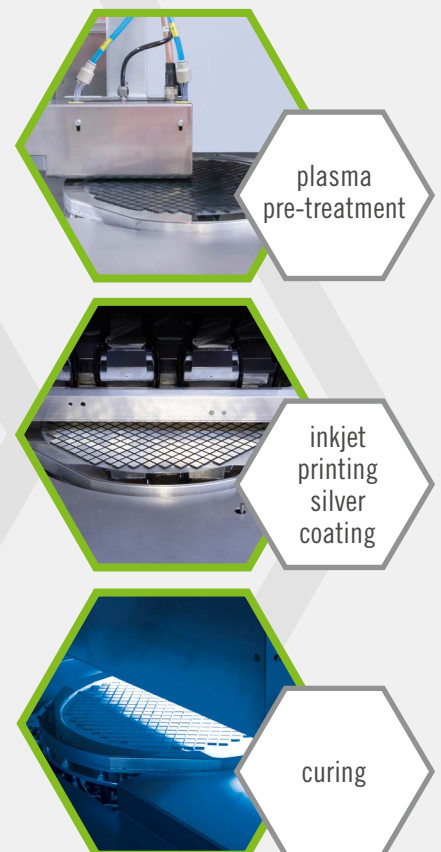


## Prexonics®

### System Solution for EMI Shielding in 5G Technology



## Key Benefits

### Superior Shielding Performance

- -60dB shielding achieved across broad frequency range with Ag coating

### Improved Efficiency (compared to PVD)

- Lower TCO
- Lower capex and smaller footprint

### Selective Printing Capability

- Customized print layout with targeted ink deposition to create selective printing; no masking or etching required
- Reduces process complexity, time and cost
- Offers the opportunity for package design freedom, new grounding methodology, thermal management for multi-chip SiP

# Heraeus Printed Electronics

## Your full solution provider for EMI shielding

### MOD ink



Particle-free ink,  
ideal for inkjet  
printing

No EHS concerns as  
with Ag-Nano inks

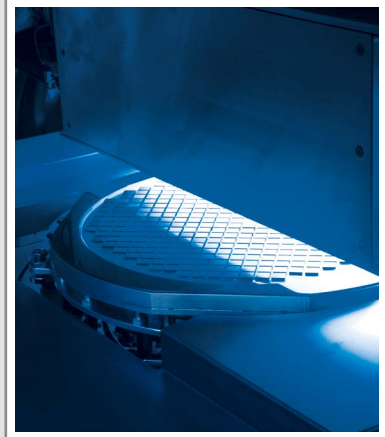
### Inkjet print module



Printing parameters  
fine-tuned to the  
viscosity of the  
particular MOD Ag ink

High speed inkjet  
printing of top surface  
and sidewalls

### Curing module



Curing parameters  
fine-tuned to  
MOD ink and substrate

Delivers optimal Ag  
crystal structure and  
conductivity in the  
printed layer

Prexonics® is a full system solution that optimizes EMI shielding while ensuring proper functioning of high-frequency onboard chips and their ultra-fast data transmission. This system consists of particle-free silver ink and a manufacturing process that uses inkjet printing to apply the shielding coating.

We have the capability to match all process, product and equipment perfectly to each other. In our application center we offer design support, materials analysis, troubleshooting, and the design of experiments. This enables us to embed our material into customer development to achieve a maximum of system performance and reliability.



For more information,  
scan the QR code or contact  
[printed-electronics@heraeus.com](mailto:printed-electronics@heraeus.com)  
[www.heraeus-printed-electronics.com](http://www.heraeus-printed-electronics.com)

**Heraeus Printed Electronics**  
Heraeus Deutschland GmbH & Co. KG  
Heraeusstraße 12-14  
63450 Hanau, Germany