

LOCTITE®

THIN, PRINTABLE 5G ANTENNA TECHNOLOGY

Simple Processing, Environmentally-friendly,
High-performance Connectivity

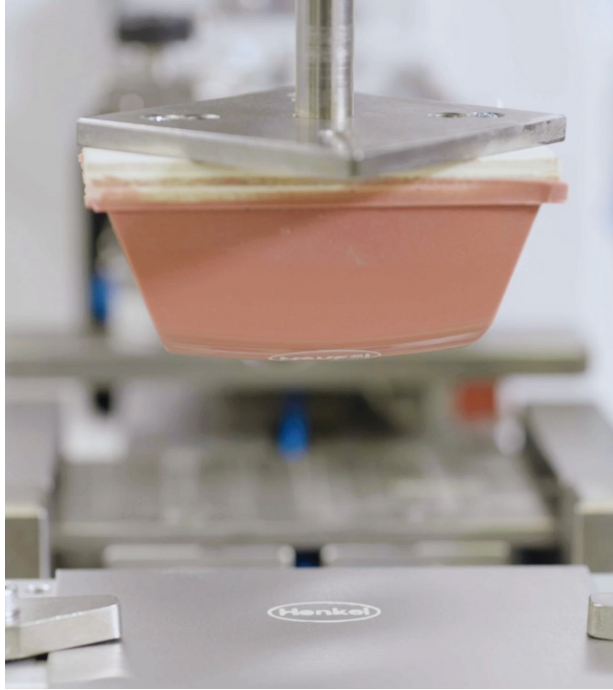


Henkel's PDS antenna technology enables design flexibility to replace incumbent antenna solutions for smaller space

Miniaturization and design flexibility continue to be primary drivers for mobile device innovation. Central to achieving these objectives is the ability to reduce the size, accommodate different shapes and locations of antenna structures while still maintaining the performance required for high bandwidth 5G applications. Henkel's printing direct structure (PDS) antenna technology frees mobile device manufacturers from conventional, non-sustainable techniques, allowing exceptional design latitude alongside robust antenna performance. Made possible through high-conductivity LOCTITE® printable inks, Henkel's solution provides market-leading capability for remarkably thin, yet powerful, 5G connectivity.



Henkel Adhesive Technologies



HENKEL LOCTITE® PDS BENEFITS

Robust antenna performance

- › Exceptional conductivity, resistance lower than other commercialized inks
- › Wide frequency band coverage
- › Highly reliable, drop resistant and impervious to contaminants

Unlimited design freedom

- › Adheres to curved surfaces, multiple organic and inorganic substrates
- › Antenna layout/design can be easily modified
- › Ultra-thin at 5 - 10 µm enables outside surface printing for outstanding signal performance

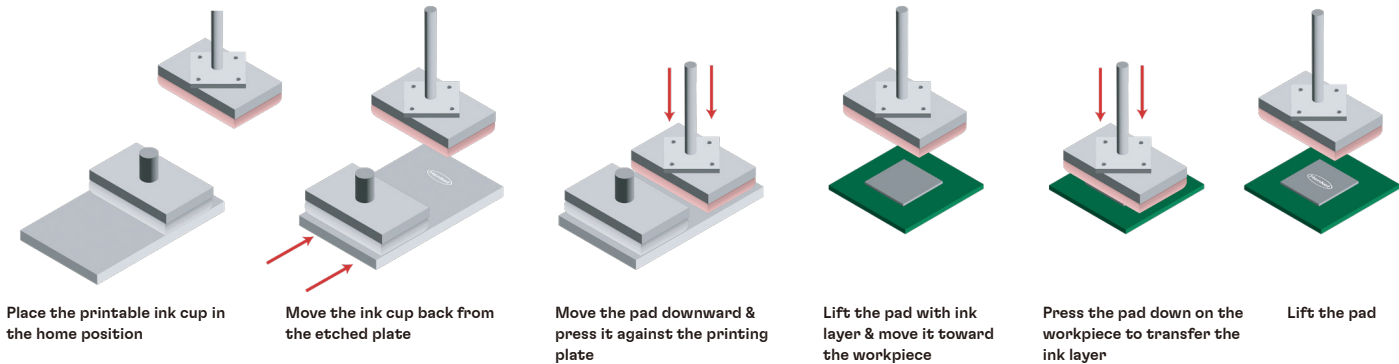
Sustainable

- › Eliminates chemical-intensive, electroplating processes
- › Reduces material waste
- › Reworkable

Easy integration

- › Low-cost equipment investment
- › Simple printing
- › Fast, efficient curing

A FAST PAD PRINTING PROCESS TO FORM A CONDUCTIVE STEREO CIRCUIT



With Henkel's PDS material technology, the future of connectivity is thin and powerful.

Scan the QR code to watch a video to learn more about Henkel's solution on PDS antenna.

For more information, visit us at henkel-adhesives.com/electronics and get in touch with our PDS expert.



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