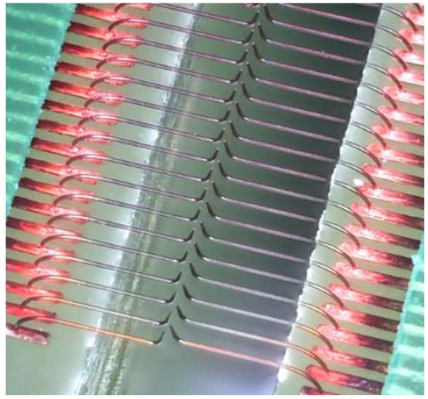
Master Thesis:
THz Thermal Management Components

Karlsruhe Institute of Technology

THZ systems often involve components that generate significant heat, such as high-powered THZ lasers or detectors. Direct metal printing could be used to create highly efficient, custom heat sinks or thermal management structures that are specifically designed to dissipate heat in these systems:
High Power THZ Lasers: Custom heat exchangers or cooling fins designed to dissipate heat efficiently.
Precision Cooling Components: Metal structures that improve the overall thermal efficiency of THZ detection systems.These ideas leverage the ability of direct metal 3D printing to produce complex geometries and fine details that are essential for optimizing performance in THZ systems. With the flexibility and precision of metal printing, these components can be tailored for specific applications, whether for communication, sensing, or scientific exploration.



https://www.exaddon.com/

Your tasks:

- 3D printing
- Chip assembly
- Creating LabVIEW Processes
- Evaluation of packaged devices

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