

CPS Technologies

Hermetic Packaging

CPS Technologies is a premier provider of glass and ceramic sealed hermetic packages for a variety of applications. Our team is capable of manufacturing packages to your specifications or assisting in the design of new packages to support your needs.

Capabilities

- Glass and Ceramic Seals.
- Stamped or machined housings with in-house machining capabilities.
- Numerous housing materials including Kovar, Steel, CPS AlSiC-9, Aluminum, Molybdenum, Copper Composites, and more.

Common Formats:

- | | |
|---------------------|---------------------|
| ➤ Power Headers | ➤ Machined Housings |
| ➤ Platform Plug Ins | ➤ Cup Plug Ins |
| ➤ Flat Packs | ➤ Connectors |

Design Support:

CPS has extensive experience in developing hermetic packages for microelectronic applications. Our team of engineers is capable of assisting in the development of reliable, manufacturable components. Our expertise includes:

- Model and Drawing Generation
- CNC and Inspection Programming
- Material Selection
- Design for Manufacturability (DFM)
- Design for Manufacturability assistance.
- Custom plating configurations to meet customer requirements.



CPS Technologies
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Norton, MA 02766

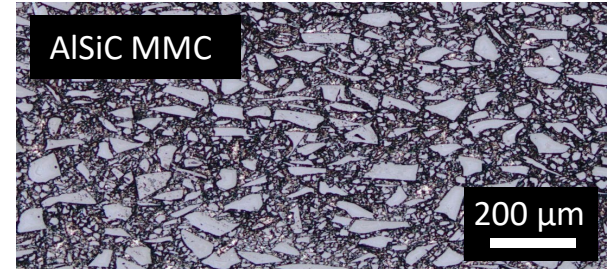
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CPS Technologies

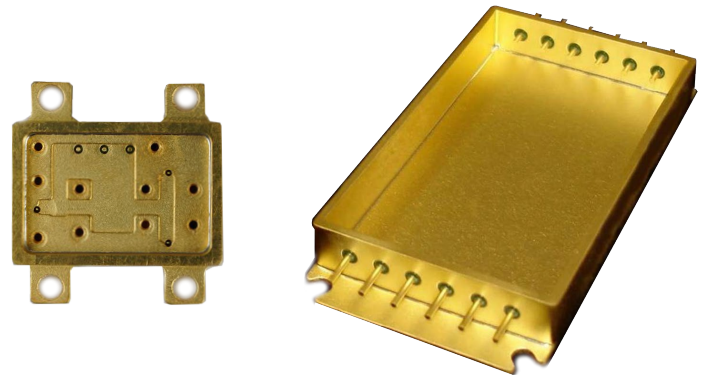
AlSiC Hermetic Packaging

Product Details

CPS Technologies proprietary aluminum silicon carbide (AlSiC) composite is ideally suited for hermetic package applications. AlSiC is a light weight, thermally stable metal matrix composite that can be used in a number of package configurations



- 40-60% lighter than CuMo or CuW
- Low coefficient of thermal expansion for direct attachment of substrates.
- Thermal conductivity of 180 W/m-K
- Standard and non-standard bases available.
- Meets MIL-PRF-38534 Appendix C Table IV



Machined Modules

Capabilities

CPS Technologies is a premier provider ultra precision CNC milled components for aerospace and microelectronic applications. Our Norton, Massachusetts site has multiple machining centers capable of processing CUI/ITAR components

- 3 and 5 Axis Machining Centers
- Ultra-Precise Tolerances
- Machined, Media Blasted, or Plated
- Various Materials

