

# **CPS Technologies**

## Aluminum Microelectronic Packages

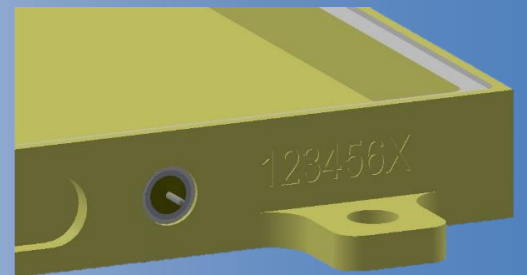
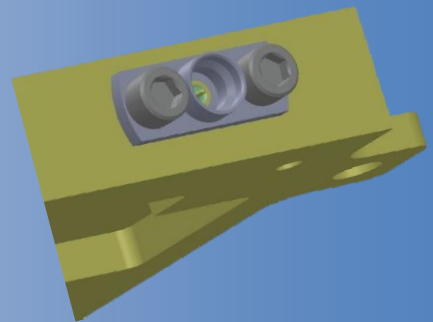
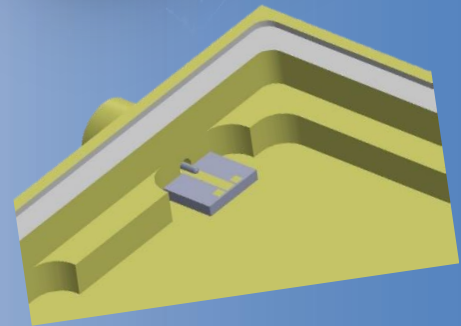
**CPS Technologies has the capability to manufacture machined aluminum microelectronic packages for defense, aerospace, and other applications.**

**Product features include the following capabilities...**

- Soldered-in glass terminals and/or ceramic interconnects; internally manufactured or customer sourced.
  - RF terminals (SMA, SSMP, GPO & GPPO)
  - DC terminals
  - Ceramic thin-film networks (TFNs)
- Solving thermal challenges utilizing Aluminum Silicon Carbide (AlSiC).
- Brazed-in mechanical features including mounting studs.
- Value-added hardware installation including helical insert installation.
- Selectively plated or secondary machined surfaces.
- Engraving for part numbers and serialization.

### **Other Products...**

- Machined housing in ASTM F-15
- Plug-ins
- Power packages



111 South Worcester St  
Norton, MA 02766  
508-222-0614  
sales@cpstechnologiesolutions.com





### **CPS Technologies Certified to ISO 9001:2015 Standard**

CPS Technologies provides quality assurance testing to MIL-STD 883 and MIL-STD 202; CPS is compliant to DFARS clause 252.225-7014 ALT.1, RoHS and REACH.

### **CPS Technologies Plating Recourses**

- Electroless Nickel per MIL-C-26074, ASTM B-733 and AMS 2404
- Electrolytic Nickel per QQ-N-290 and ASTM B-689
- Gold per ASTM B-488 and MIL-DTL-45204
- Chromate per MIL-DTL-5541

### **CPS Technologies Test Capabilities**

- Air to Air temperature cycle/shock per MIL-STD-883, method 1010
- Steam age/solderability testing per MIL-STD-883, method 2003
- Liquid to Liquid per MIL-STD-883, method 1011
- Lead Fatigue per MIL-STD-883, method 2004
- Hermeticity validation to  $1 \times 10^{-10}$ cc/sec of helium per MIL-STD-883, method 1014, condition A4
- Insulation resistance to 10 G $\Omega$  at 500 VDC per MIL-STD-883, method 1003
- Salt spray per MIL-STD-883, method 1009
- Compliance to JEDEC and MIL-STD-883



111 South Worcester St  
Norton, MA 02766  
508-222-0614  
sales@cpstechnologiesolutions.com

