Electronic Manufacturing Capabilities

Design

PSL’s Electronic Shop is responsible for the continued development, testing, and trouble shooting of electronic products and systems for a variety of uses, including ground, mobile, airborne, and space flight. Capabilities include:

- Fabrication of off-the-shelf circuit boards
- Fabrication of custom designs and data acquisition systems for:
  - Rockets, Missiles, Projectiles, and Satellites
  - Fixed and Mobile Communications Systems
  - Electronic Warfare Systems
  - Surveillance, Tracking and Location Aid (GPS for example)

Designs can be submitted as

- Electronic Files
  - Altium, OrCad, or pdf
- Hard Copy Schematics and hand wiring diagrams

Fabrication

PSL’s Electronic Shop can fabricate simple electronic products to entire data collection systems.

Shop Processes include:

- Soldering
- Wiring Etching
- Conformal Coating

Testing & Inspections

PSL’s Electronic Shop performs various acceptance tests to insure each system functions properly, within specifications and parameters.

Each electronic product built goes through quality assurance inspections throughout the process:

- Electrical Inspection
- Full System Inspection
- Limited Environmental Testing to include: Vibration, Thermal Cycling, etc.
- Complete Final Inspection

Experience

Experienced in manufacturing inspection, trouble shooting, and repair of electronics on or offsite. The Electronics Shop’s primary function is to support the TM Shop and its customers with:

- Custom fabrication of bare PWB AWD assemblies performed
- Assembly of custom chassis including PWB’s, Power Supply, Front/Rear Panels, and the Connection Wiring
- Custom harnessing of power/data collection systems for airborne and rocket sub systems and systems

The products listed in this brochure are or may be subject to U.S. export controls under the International Traffic in Arms Regulations (ITAR) or Export Administration Regulations (EAR). Non-U.S. customers or customers requiring overseas delivery of PSL catalog products will be required to submit end-use and end-user information relating to product use, and PSL’s delivery of such products to destinations outside of the U.S. may be subject to licensing requirements. If a customer taking delivery of a PSL catalog product and/or any technical information supplied therewith in the U.S. subsequently exports or re-exports such product or information, it is customer’s responsibility to assure compliance with U.S. and other applicable export control laws and to obtain any required licenses or approvals in its own name.