

Unmanned Systems Market - Product Guide



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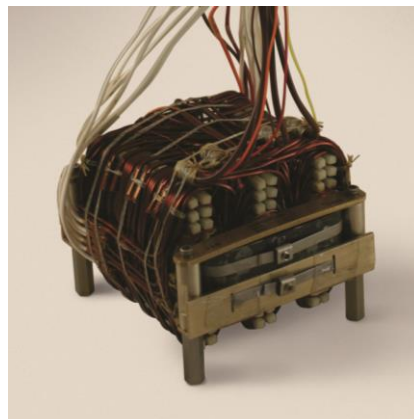
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There is no room for error in unmanned systems. In fact there is little room for anything. That's why designers of drones and unmanned vehicles rely on Standex-Meder Electronics for custom transformers, coils, inductors, and high reliability position sensors.

With experience in providing 'flight' parts that are manufactured to the most stringent quality standards, Standex-Meder is uniquely qualified

to understand the requirements for unmanned systems, and then provide custom components to suit that need. And we back it up with the most up to date certified quality systems and procedures required to operate in the military and aerospace arena. Using our industry leading, state of the art environmental test lab, Standex-Meder is also capable of completely testing these components 'in-house'.

Standex-Meder provides custom components for military and aerospace projects for land, sea and air, including programs like the Joint Strike Fighter. Whether these projects are in the design, prototype or production stage, Standex-Meder is ready to assist.



Custom Standex-Meder parts for unmanned systems applications:

- Encapsulated PC-Mount Toroidal Transformer with Open Center Hole for various Military, Aerospace and other high reliability applications.
- Toroidal transformer assemblies on special mounting plate for jet fighter control application
- Planar Transformers for Space Satellite Applications
- Surface-mount Insert-Molded Power Inductor for DC-DC Converter and power Supply Applications – the robust construction is ideal for military applications where space and weight are at a premium
- Custom ignition coils for commercial small jet engine application
- Very High Voltage transformers for space applications
- Input Scott T Synchro to Resolver Converter Transformers for military and aerospace applications.

Military and Aerospace Specifications & Quality Approvals:

- Mil-T-27 / Mil-PRF-27 Grade 4,5 & 6 design and quality
- Mil-Std-981 design & manufacturing standards for space applications
- Mil-Std-202; Hi-Reliability Military Aerospace & Space Standards
- Mil-PRF-21038
- Mil-I-45208
- NASA-STD-8739.3, NASA-STD-8739.4 Soldering
- J - STD-001 to -006 Soldering
- DESC Approved Environmental Test Lab
- QPL (Qualified Products List) Approved
- ISO9000 (General Quality Standard)
- AS9100 (Military and Aerospace Quality Standard)
- International Traffic in Arms Regulations (ITAR) Registered

Product Solutions

Engineering & Design Capabilities:

- Transformer design
- Flyback
- Planar
- Scott T
- Inductors & Chokes
- Power Supply Components
- Integrated Systems
- Mechanical & Electronic Component Packaging
- Reed Switch Engineering
- Proximity Sensors
- 3-D Solid Modeling Design
- Connector & Terminal Engineering

Manufacturing Capabilities:

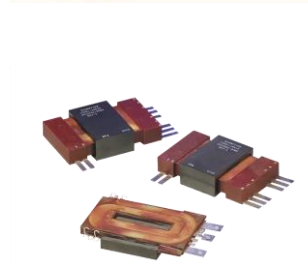
- Military Mil-PRF-27 / Mil-T-27, QPL level T
- 52ga-8ga & Foil Magnetic Component Winding
- Vacuum/Pressure Impregnation
- Wire Prep and Wire Harness Assembly
- Maximum 600V and 2.5 KVA; Class 130,
- 155 and 180
- Custom molding and packaging
- Rapid Prototyping
- Fully Equipped Certified Test Labs

Testing Capabilities

- Thermal Cycling
- Thermal Shock
- Moisture Resistance
- Corona Discharge
- Scott T Angular Accuracy
- Radiographic
- Transformer Electrical Characteristics
- Mechanical Shock
- Microscopic Investigation / DPA
- Terminal Strength
- Life / Burn-In
- Solderability
- Salt Fog
- Vibration
- Seal Testing
- Temperature Rise



Molded Position sensors provide high reliability in a very small footprint



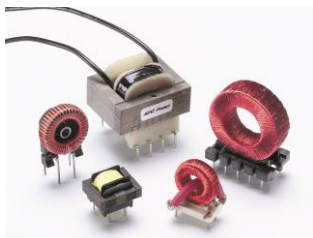
Planars for satellite power supplies



Magnetic reed switches available as small as 3.7mm fit virtually anywhere



High voltage transformers



Custom Components to fit any need



Inductors for air frame power distribution