

Surgical Imaging Power Supply



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Surgical imaging technology is helping doctors around the world operate with more precision than ever before. But when a major manufacturer of this equipment needed large toroidal transformers in a hurry, the prognosis was not good. Until they turned to Standex-Meder Electronics. We have the resources to develop and test the transformers needed - and global facilities to supply them locally.

This manufacturer had been purchasing large toroidal transformers from a different supplier. Everything was working smoothly until their vendor suddenly and unexpectedly went through a financial reorganization - leaving the OEM with a short supply. Standex-Meder had supplied transformers with a smaller footprint. We leveraged our engineering capabilities, manufacturing experience and financial resources to quickly produce larger transformers too. Our engineering staff purchased 5 new winding and taping machines - which were soon producing prototypes for validation and testing.

Custom Standex-Meder parts for medical applications:

- Magnetic Reed Switches for Non-Contact Position Sensing for Hearing Aids
- High-Frequency Custom Transformers for MRI & High Definition (HD) Video Imaging
- High-Current, -Frequency, Common-Mode Choke
- High-Frequency, PC-Mount Transformers
- Current Sense Transformers for Surgical and Procedure Tables
- High-Frequency, High-Current Magnetics
- Surface Mount High-Frequency Transformers
- Surface-Mount Insert-Molded Power Inductors for Dental Chair & - Lighting
- Self-Supported Air Windings for Antenna & other Radio Transmit Receive Applications

Production units meet customer specifications, including:

- Capacity up to 5kVA
- Dual 115/230V 50/60 Hz Rated Primary
- Class B-130°C Insulation
- Low Loss and Leakage Inductance Ensures
- Clean Scans and Safer Procedures
- High Efficiency Designs
- CSA and UL Recognized Components
- LR16597, E105782

Many companies can make electronic components - but Standex is clearly different. We produce components to meet tight performance characteristics - then validate them in a world class test lab. And with facilities around the world, we can manufacture parts closer to where they are needed - simplifying logistics.

These kinds of resources - financial stability, engineering expertise, precision manufacturing, and a "global footprint" - set Standex-Meder apart. And they can help assure the success of our customers.



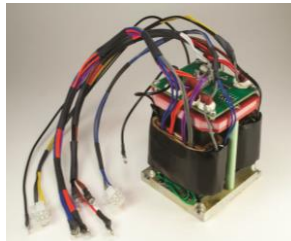
Capabilities include:

- Connector & Terminal Engineering
- High-volume, Progressive Die Stamping
- Experienced in UL, CSA, IEC, TUV & VDE Standards
- Mechanical Engineering & Electronic Component Packaging
- 3-D Solid Modeling Design
- Plastic Molding Capabilities
- Wire Prep and Wire Harness Assembly
- Rapid Prototyping
- Glass to Metal Sealing
- Laser Welding
- Magnetic Component Engineering
- Power Supply & Other Systems Engineering
- 52ga - 8ga & Foil Magnetic Component Winding
- Wind and Assemble All Core Shapes and Types Including Laminated

Laboratory test capabilities for Medical applications:

- Thermal Shock Testing (-70°C to 200°C, LN2 Boost Assures Less Than a 5 Minute Air Temperature Recovery Time).
- Thermal Cycle Testing (-68°C to 177°C)
- Humidity Testing (-18°C to 93°C, 98% RH, Cycle Temp or Steady State).
- Vibration Testing (Sine or Random Profile, 1" pk-pk Displacement, 0 to 80g pk, 5 to 2000 Hz)
- Mechanical Shock Drop Testing (½ Sine 50g 11ms, ½ Sine 1500g .5ms, or Sawtooth 100g 6ms)
- High Temp Testing (Up to 260°C)
- Salt Fog Testing
- Solderability Testing as Required

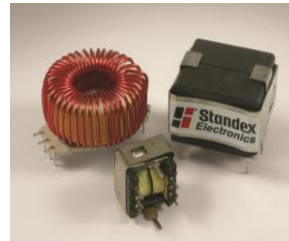
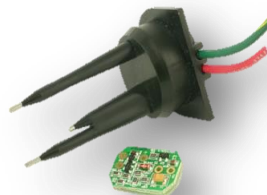
High Frequency Transformer for Medical Image



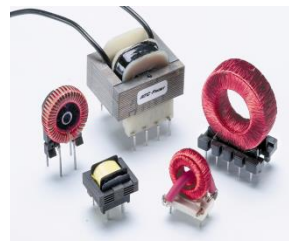
High Frequency Toroidal for Medical Applications



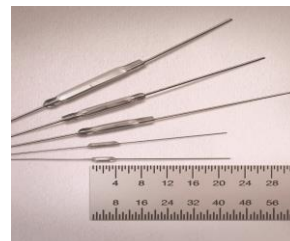
Conductive Liquid Level Sensor



High Frequency Toroidal and Bobbin-Wound Magnetic Components



Custom Magnetics to Fit any Need



Magnetic Reed Switches for Non-Contact Position Sensing



Surface Mount Devices for Non-Contact Position Sensing