

Capabilities

Manufacturing

- Mechanical and electrical assembly
- · Automated and manual toroidal winding
- Automated and manual bobbin and coil form winding
- Soldering and termination (J-STD•001, IPC 610)
- Assembly
- Potting/impregnation
- Coating
- Baking
- · Solid wire, litz wire, copper foil
- Coils made from bondable wire
- Tuned RF inductors to tolerance +/-0.5%
- PCA repair and test

Electronic Manufacturing Services

- Process validation, risk assessment and PFMEA
- Rapid prototype services
- · Turnkey assembly, validation, and test
- Qualified vendors: cable and harnessing, PCB/PCA, chassis, machined parts, injection molding
- Kanban and inventory management

Test

- Inductance, capacitance, Q, impedance, phase angle (60 Hz to 100 MHz)
- Hypot: 100 Volts to 50 kV
- DCR: 0.5 microohms
- Surge testing to 4kV
- Turns ratio/phasing
- Fully automated transformer testing
- All test equipment is calibrated to NIST standards
- Automatic transformer test
- PCA

Design

- Linear, switching power and RF transformers and inductors
- Frequency: 60Hz to 100 MHz
- Power (to 10 kW): isolation transformers, SMPS transformers, buck/boost inductors, resonant inductors, RF transformers, gate drive transformers, current sense transformers, common mode chokes
- UL/CSA/VDE/TUV compliance
- Filters high power, multichannel, frequency 100 kHz to 50 MHz
- High voltage transformers
- Wireless signal and power transfer magnetics

Technology - Intellectual Property

- Multichannel highly parallel notch filter
- Isolated RF power transformer
- · Low loss winding gapped SMPS inductors

Engineering

- 3D modeling Solidworks
- 2D modeling Autocad
- Process validation, risk assessment, PEMEA
- Turnkey solution for recognized designs, UL/CSA/VDE/TUV
- Power magnetic device simulation
- · Ansys finite element modeling
- Thermal simulation
- Python









