

Capabilities

Transformer/Inductor Manufacturing

- Automated and manual toroidal winding
- Automated and manual bobbin and coil form winding
- Soldering and termination (JSTD-001)
- Assembly
- Potting/impregnation
- Coating
- Baking
- Solid wire, litz wire, copper foil
- Coils made from bondable wire
- Tuned RF inductors to +/- 2% tolerance

Electronic Manufacturing Services

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

Test

- Inductance, capacitance, Q, impedance, phase angle (60 Hz to 1 Gigahertz)
- Hypot: 100 Volts to 14 kV
- DCR: 0.5 milliohms to 1000 kiliohms
- Surge testing to 4 kV
- Turns ratio/phasing
- Fully automated transformer testing
- All test equipment is calibrated to NIST standards

Design

- Linear, switching power and RF transformers and inductors
- Frequency: 60 Hz to 100 MHz
- Power (to 100 kW): Isolation transformers, SMPS transformers, buck/boost inductors, resonant inductors, line reactors, RF transformers, gate drive transformers, current sense transformers
- RF and filtering: Common mode chokes, RF and resonant circuit inductors
- UL/CSA/VDE/TUV compliance

Engineering

- 3D modeling – Solidworks
- 2D modeling – Autocad
- Process validation, risk assessment, PFMEA
- Turnkey solution for recognized designs, UL/CSA/VDE/TUV
- Power magnetic device simulation

