Navigation / Position Sensing Applications

5DOF Sensor Coils
- Film-insulated copper
- Magnet wire ranging from AWG 45 (.0018") to AWG 60 (.000309")
- Wound with specialized winding & dereeling equipment

6DOF Slanted Sensor Coils
- Enhanced signal intensity
- Simplified design process & real estate savings
- Enhanced product
- Performance with fewer components

3-Axis Transmit Coils
- Field generating coils
- Air, plastic or ferrite core
- Precisely wound for exceptional repeatability
- Unlimited variations available in size and field strength

Value-Add Assemblies
- Termination of fine wire
- Encapsulation & molding
- Integrated sensor coils
- Testing & characterization

Patient Programmer / Antenna Charger / HV Transformer / Value-Add Assemblies

Telemetry Coils
- Implanted & charging telemetry antenna
- Communication & charging of the implants

Flexible Telemetry and Charging Coils
- Pliable for maximum patient comfort
- Unique winding technique for maximum coil integrity

Curved Coil with Value-Add Assemblies
- Potted assembly to ensure quiet operation
- Custom wire & unique winding process
- Generate 1+ Tesla within 1.5cm
- For transcranial magnetic stimulation

High Voltage Transformers
- Defibrillators (ICDs)
- Generate high voltage required for therapy
Electromagnetic Motion Tracking For Augmented, Virtual and Mixed Reality Applications

3-Axis EM Rx Coils
- For industrial training & gaming peripherals
- 3D signal sensing
- Tight inductance tolerance (±1%)

3-Axis EM Tx Coils
- For industrial training & gaming peripherals
- Generate 3D magnetic field
- Tight inductance tolerance (±1%)

Industrial Power Supply, Controls and Instrumentation

Current Sense Modules
- Integrated burden resistor circuit to generate desired output voltage
- Extremely durable against vibration & other environmental conditions
- Custom single & 3 phase design

High Frequency Switchmode Magnetics
- High power density
- Efficiency optimized design
- Optimized with FEA software
- Wide power range: 10 W to 100 kW
- Supports wide range of topologies

Reactors
- For harmonic, motor & drive protection for Variable Frequency Drives (VFDs)
- 2,000+ A current capability
- Up to 2.5 MW
- Ducted coil design available

Single and Three Phase Linear Transformers
- Single phase – up to 30 kVA
- Three phase – up to 100 kVA
- Custom taps / lead out configurations available
- NEMA containers available

Facilities
- Class 100,000 clean room (ISO8), ISO: 14644
- Medical implantable electromagnetics manufacturing
- Ship to stock capabilities
- In-house engineering support

Engineering Design Tools
- Ansys Maxwell 3D
- SolidWorks Simulation
- CBX (Coil Build Xtreme)

Certifications and Accreditations
- ISO 9001
- AS 9100
- ITAR
- ISO 13485