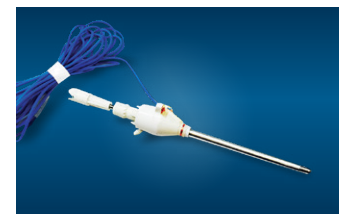
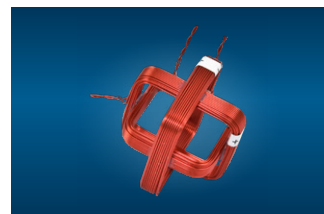
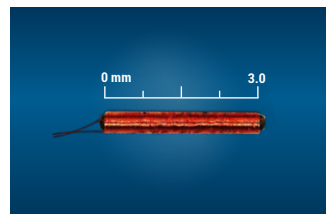




## OUR CAPABILITIES

TT Electronics is the engineering partner you can rely on. We have over 55 years of electromagnetic experience in addition to world-class design capabilities and an extensive materials network. Whether its design, prototyping, testing, certification, or global manufacturing, our team can help you.

## 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
- Enhanced signal intensity
- Simplified design process & real estate savings
- Positioning reference probes
- Performance with fewer components

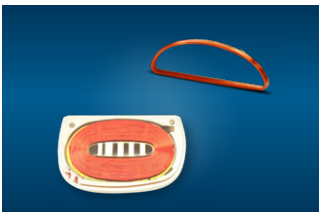
### 3-Axis Transmit Coils

- 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



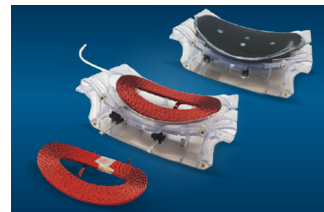
### Telemetry Coils

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



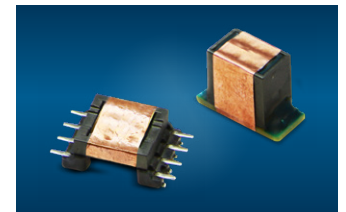
### Flexible Telemetry and Charging Coils

- 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



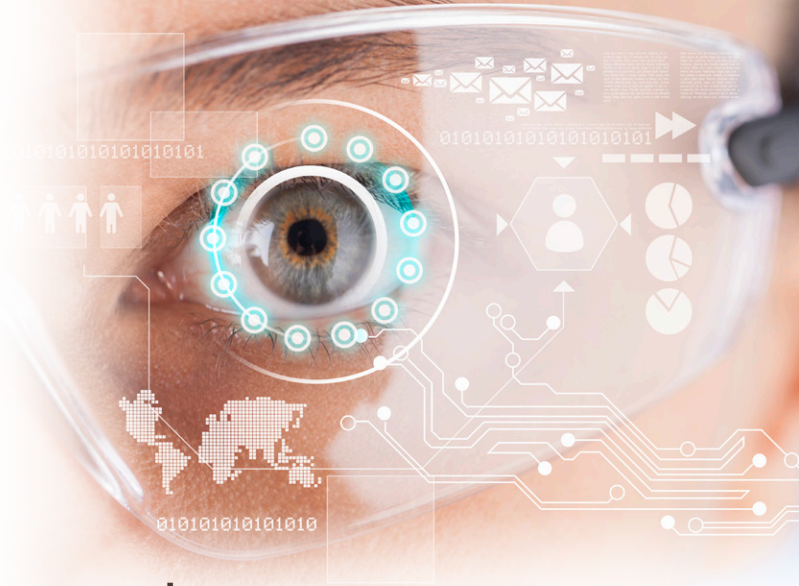
### 3-Axis EM Rx Coils

- For industrial training & gaming peripherals
- 3D signal sensing
- Tight inductance tolerance ( $\pm 1\%$ )

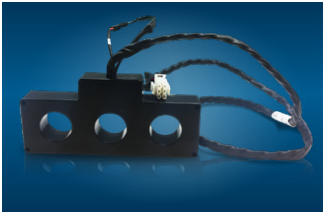


### 3-Axis EM Tx Coils

- For industrial training & gaming peripherals
- Generate 3D magnetic field
- Tight inductance tolerance ( $\pm 1\%$ )



## Industrial Power Supply, Controls and Instrumentation



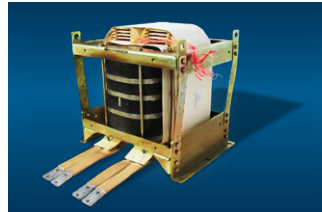
### Current Sense Modules

- 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

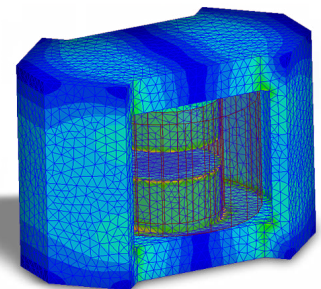
- Single phase – up to 30 kVA
- Three phase – up to 100 kVA
- Custom taps / lead out configurations available
- NEMA containers available

## Facilities

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

## Engineering Design Tools

- Finite Element Analysis
- SolidWorks Simulation
- Coil Build Xtreme (preliminary)



## Certifications and Accreditations

