

ENGINEERED TO OUT PERFORM

iNRCORE
Family of Brands

High Performance Electronic Solutions
RAIL INDUSTRY APPLICATION

RAIL PROGRAM PARTICIPATION

When reliability matters, Rail industry providers turn to iNRCORE for solutions that meet the highest quality requirements. iNRCORE's experience and capabilities extend beyond the rail cars itself, but are also incorporated in many elements that support the rail system at large including the track, wayside bungalows and mainline infrastructure, ensuring these transportation systems run efficiently throughout the world.

TRANSFORMERS

Standard and custom RF & power transformers are available. Designed with high reliability and efficiency to meet the highest standards for rugged reliability.

ETHERNET FILTER MODULES

Fully compliant with IEEE 802.3i and fully integrated 10Base-T module including low pass filters, isolation transformers and common mode chokes. Also continuous support of EOL products obsolete by other magnetics suppliers.

CUSTOM MAGNETICS

Our deep engineering expertise allows us to create custom magnetic solutions for extreme applications that demand strong, accurate, and exceptionally reliable components, including a wide range of sizing and complexity.

INDUCTORS

Standard and custom RF & power inductors are available to meet your rail needs. iNRCORE Inductor solutions are among the most versatile and designed to work in high shock/vibration environments.

RF FILTERS

High quality bandpass, highpass, lowpass, bias tees, diplexers, multiplexers, and more available to enhance communication and signal processing in critical applications.

RESISTORS

Multiple designs available using the same housing but with different center frequencies. Manufactured in accordance with the applicable Mil-specs, and available in a much wider range of values and tolerances.

Commuter Rail

- Auto Transformer Rectifier Unit
- Carborne Marker Unit
- Ceramic Chip Inductors
- Power Inductors
- Custom Transformers
- Ethernet Transformers
- Flyback Transformers
- Receiver Coil



Wayside Bungalow

- Bandpass Filters
- Common Mode Chokes
- Filter Transformer
- High Current Power Inductor
- Relay Coil
- Universal Power Transformer
- Vane Magnet



Track Bound

- Aluminum Resistors
- Film Resistors
- Impedance Bond
- Receiver Coil Antenna



Crossings

- Ceramic Capacitor
- Gate Drive Transformers
- High Reliability Power Inductor
- Power Inductors
- Resistor Networks
- Thick Film Chip Resistor



High-Speed Rail

- Auto Transformer Rectifier Unit
- Common Mode Chokes
- Ethernet Transformers
- Planar Transformers
- Inductors
- Carbon Comp Capacitor
- High Current Power Inductors
- Resistors
- RF Bead
- Tantalum Capacitor

Custom Designs available to meet your requirements. We offer extensive design options, prototype to production capabilities & decades of OEM experience.

UNMATCHED CAPABILITIES

With More Than 70 Years of Experience and Specialized Knowledge

in high performance electronic components, we've invested heavily in the vertical integration of each capability - from automation systems, to modern manufacturing facilities, to full tooling and testing - to ensure the scalability and reliability you need.

When it comes to high performance electronics, we know there isn't a one-size-fits-all solution. Our family of brands comes together as your collaborative partner, rapidly responding to meet your unique requirements and timeline.



INRCORE FAMILY OF BRANDS

INRCORE

INRCORE

Designs and manufactures magnetic components that transmit high-speed, mission-critical signal and power in the harshest operating conditions.

inrcore.com

BICRON

BICRON

Designs and manufactures custom magnetics, custom transformers, power harvesting & sensing current transformers, and DC solenoids for extreme reliability long-life applications.

bicronusa.com

DYCO

DYCO ELECTRONICS

Manufacturer of high performance custom magnetic components and electronic assemblies for high reliability applications, including rail transportation safety systems.

dycoelectronics.com

GOWANDA

GOWANDA ELECTRONICS

Designs and manufactures RF and power inductors, broadband conicals, military QPL, HiRel, non-magnetic designs, and transformers for military/aero, space, medical and commercial applications.

gowanda.com

hisonic

HISONIC

Design and build-to-print transformers, inductors, and assemblies for mission critical applications.

hisonic.com

RCD

RCD COMPONENTS

Manufacturer of passive components, including resistors, capacitors, coils and delay lines for the aerospace, medical, military and commercial industries.

rcdcomponents.com

TTE

TTE FILTERS

Develop and manufacture of high quality RF and microwave filters, bias tees, diplexers, multiplexers, amplitude equalizers and EMI/RFI filters, especially for critical test and measurement applications.

tte.com

VANGUARD ELECTRONICS

VANGUARD ELECTRONICS

Designs and manufactures custom components for RF and power applications. And to provide the highest quality magnetics that operate defect-free while cost effective.

ve1.com

BREADTH OF EXPERTISE

Supplying & Supporting the Rail Industry

With global demand for transport growing, and the potential for passenger and freight activity to more than double by 2050, rail companies look to technology providers like iNRCORE to ensure efficient delivery. These products have to be dependable, capable, and ready to handle constant use, high vibration and tempos as these consumers and goods move throughout the world.

- Propulsion Systems
- Braking
- Energy Storage
- AC Units
- APUs
- Track Bound Products
- Wayside Bungalow Products
- Rail Safety Crossing Systems
- Communication Based Train Controls
- Passenger Information Systems
- Programmable Logic Control (PLC)



TRUSTED BY THE BEST

ALSTOM

CRRC



SIEMENS

Wabtec
CORPORATION





SEE WHAT SETS INRCORE APART

CUSTOMIZATION

Built-to-Print
Custom Test Plans

- Design to your Specifications
- Support Specification Drawings
- Rapid Prototyping Support
- Support Built-to-Print

MODIFICATIONS

Ruggedizing
Up-Screening

- Modify Existing Designs
- Provide Design Reviews
- Support Space Grade Modifications of Parts
- Provide Up-Screening Recommendations

PRODUCTION

U.S.A. & Offshore Production
Capabilities

- AS9100D Certified
- Automated Production Capabilities
- High-Mix Low Volume and High-Volume Manufacturing
- Comprehensive Inspection and Testing to Ensure Performance in Harsh Conditions

EXPERTISE

Market Segment
Specialization

- Aerospace
- Rail Transportation
- Defense/Military
- Medical
- Power Distribution/Utilities
- Space
- Specialty Industries

Contact Us Today

Learn more about our products and how working with the iNRCORE family of companies can cost-effectively meet your timeline.

iNRCORE
Family of Brands

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RUGGED TO THE CORE

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