

CenturaCores - Nanocrystalline EMI Filter Cores

Technical Datasheet - Rev 2.1

MATERIAL PROPERTIES

Permeability: 30,000 - 100,000

Saturation Induction: 1.2T

Operating Temperature: -40°C to +120°C

Curie Temperature: 570°C

Core Loss @ 100kHz: <150 mW/cm³

COMPLIANCE STANDARDS

CISPR 25 - Automotive EMC

EN 55011 - Industrial Equipment

IEC 61000-6-3 - Residential/Commercial

FCC Part 15 - Computing Equipment

MIL-STD-461 - Military/Aerospace

TYPICAL APPLICATIONS

Variable Frequency Drives (VFDs) - 5-500kW

EV Charging Stations - Level 2 & DC Fast

Medical Imaging Equipment - MRI, CT scanners

High-Speed Rail Traction Systems

Industrial Welding Equipment

PERFORMANCE DATA

Common Mode Impedance: >1k Ω @ 100kHz

Differential Mode Impedance: <10 Ω

Insertion Loss: >40dB @ 150kHz-30MHz

Temperature Coefficient: <-5%/°C