

# Breakthrough Efficiency at Ferrite Pricing – Smaller, Stronger, More Efficient

## More Performance, Same Cost – The Power of Nanocrystalline

Power electronics are evolving - so should your components. MAGNETEC's nanocrystalline cores offer higher efficiency, lower losses, and superior thermal stability at ferrite-like costs. Achieve more with smaller, efficient, and cost-effective designs.

### Feature-Rich Design, Powerful Results

#### Higher Efficiency

Reduce energy losses at high frequencies

#### Compact & Lightweight

Higher saturation flux allows smaller cores, reducing system size and weight.

#### Thermal Stability & Reliability

Reliable performance across a wide temperature range

#### Seamless Integration

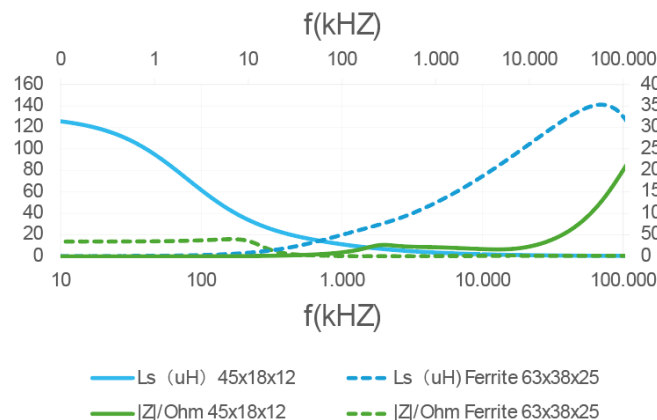
Designed for easy drop-in replacement in ferrite-based applications with minimal changes.

#### Cost-Effective Innovation

Get nanocrystalline benefits at ferrite costs - more efficiency, stability, and reliability without overspending.

## Why Choose Nanocrystalline Over Ferrite?

Feature	Ferrite	Nanocrystalline
Efficiency	Standard	Higher efficiency, lower core losses
Size & Power Density	Larger	Compact with higher saturation flux density
Thermal Performance	Limited stability	Reliable across wider temperature ranges
Magnetic Properties	Fixed	Higher permeability & better EMI performance
Cost	Affordable	Same cost, superior performance



## Designed for High-Performance Applications

### Switch-Mode Power Supplies (SMPS)

Improve efficiency and power density in industrial, telecom, and consumer electronics.

### DC-DC Converters

Optimize energy conversion in automotive, aerospace, and industrial inverters.

### Inverters (Solar, Motor Drives, UPS)

Enhance renewable energy solutions, electric drives, and power backup systems.

### Transformers & Inductive Components

Lower core losses and enhance thermal stability in high-frequency applications - a smarter, cost-neutral alternative to ferrite.