YUTE Magnetics

FeNi SOFT MAGNETIC

FeNi Soft Magnetic

High Bs · High Frequency · Low Loss

Every core we make is a cornerstone of our customers' trust.

YUTE Magnetics · Professional soft magnetic component manufacturer



COMPANY PROFILE

About YUTE Magnetics

YUTE Magnetics makes FeNi powder cores & MnZn ferrite cores for high-frequency power electronics — new energy, AI delivery, PV & industrial power.

PRODUCT FAMILIES

High Flux Powder Cores

- High saturation Bs ≈ 1.5 T
- Low core loss at high frequency
- Excellent DC-bias & temperature stability

Ferrite Core

- Broad low-loss & wide-temperature grades
- High-impedance EMI suppression
- Complements FeNi cores

WHY ENGINEERS CHOOSE YUTE

100%	Cores inspected	2 h	Fast response	3×3 cm	Samples on request	1	Traceable source

FeNi SOFT MAGNETIC

THA100

High Bs & High Frequency Low-Loss FeNi Soft Magnetic



Material Characteristics

- High Bs & excellent DC-bias
- Low high-frequency loss
- High temperature stability

Applications

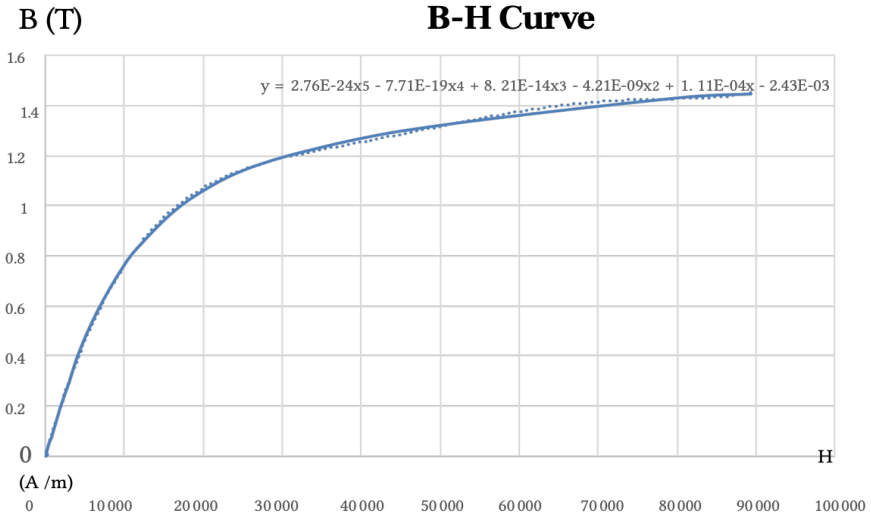
- Chip & VRM inductors
- DC-DC converters
- PFC / resonant / flyback

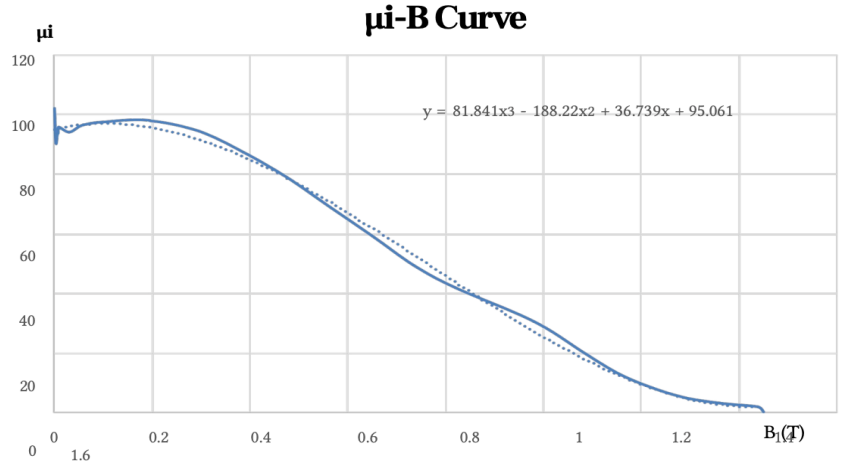
THA100 Technical Characteristics

Characteristics	
Parameter	**Typical Value**
Material Grade	**THA100**
Initial Permeability	**100**
Saturation Magnetic Flux Density Bs (mT)	**1500**
Curie Temperature (°C)	**>500**
Operating Temperature (°C)	**-55~200**
Power Loss Density @100kHz/100mT, 100°C (mW/cm³)	**200**
Power Loss Density @500kHz/50mT, 100°C (mW/cm³)	**300**
Power Loss Density @1MHz/50mT, 100°C (mW/cm³)	**820**
Power Loss Density @1MHz/100mT, 100°C (mW/cm³)	**4200**

TECHNICAL DATA

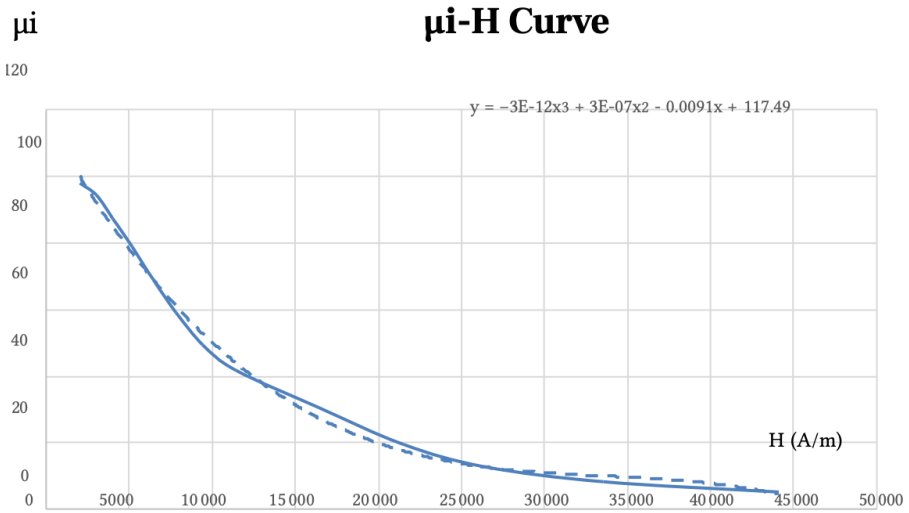
B-H & Permeability Curves





Material Characteristics

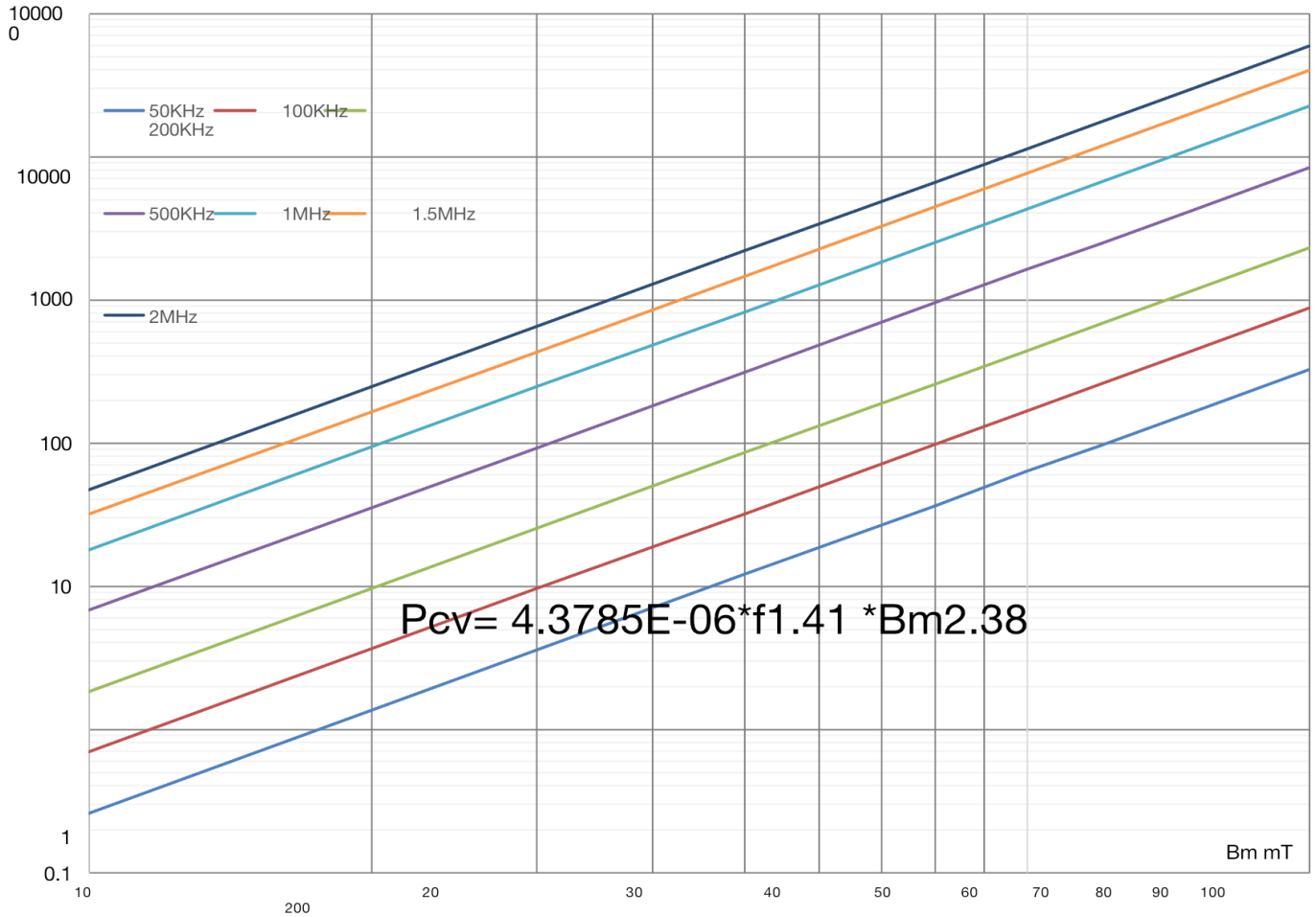
- Bs = 1.45 T
- 65% of μi retained at 0.6 T
- μi ≈ 56 at 100 Oe — strong DC-bias



Typical data measured on φ25×φ17×4 ring core; final values depend on geometry.

TECHNICAL DATA

Power Loss Density vs. Flux Density & Frequency



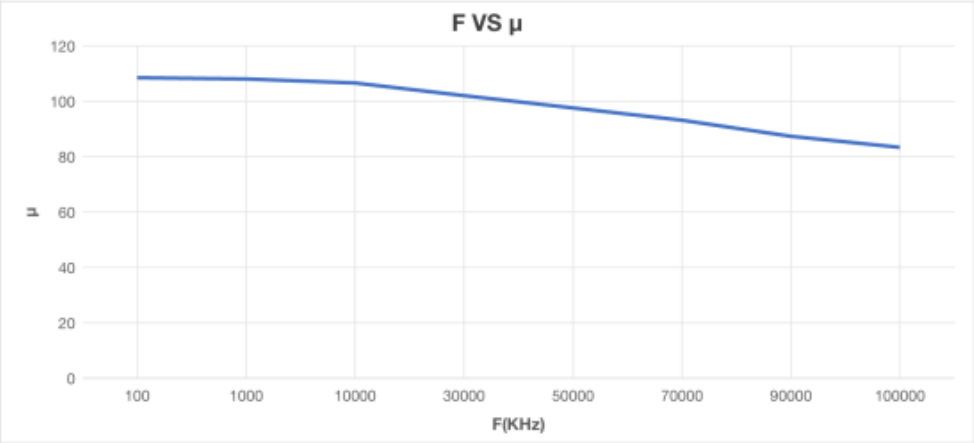
Material Characteristics

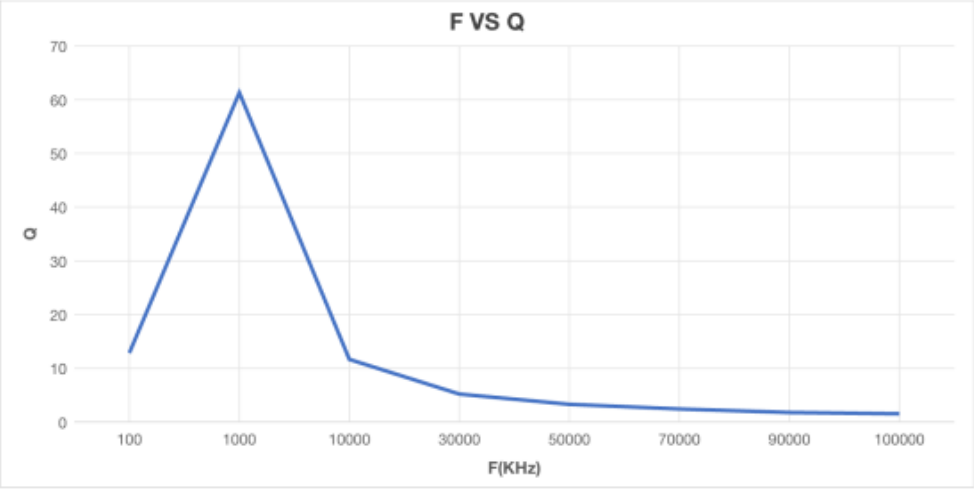
Low frequency & flux exponents (α, β) — low loss at high frequency and flux density.

Typical data measured on φ8×φ4×3 ring core; final values depend on geometry.

TECHNICAL DATA

Excellent High-Frequency Performance





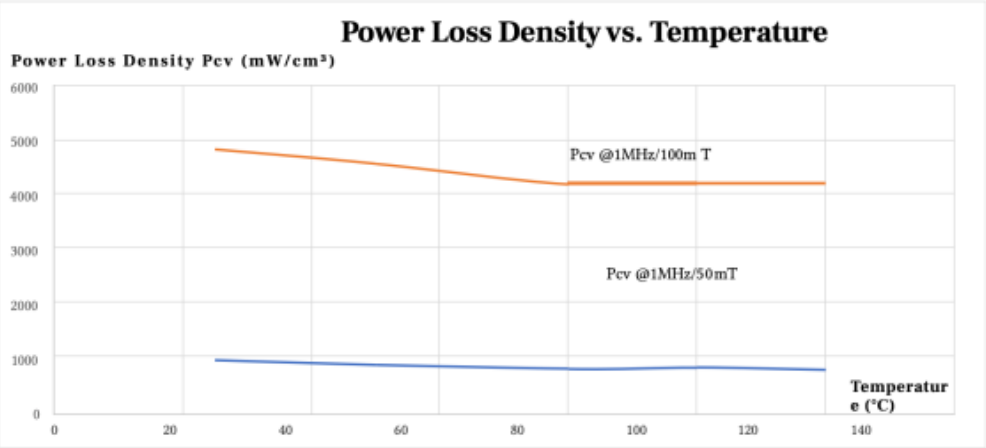
Material Characteristics

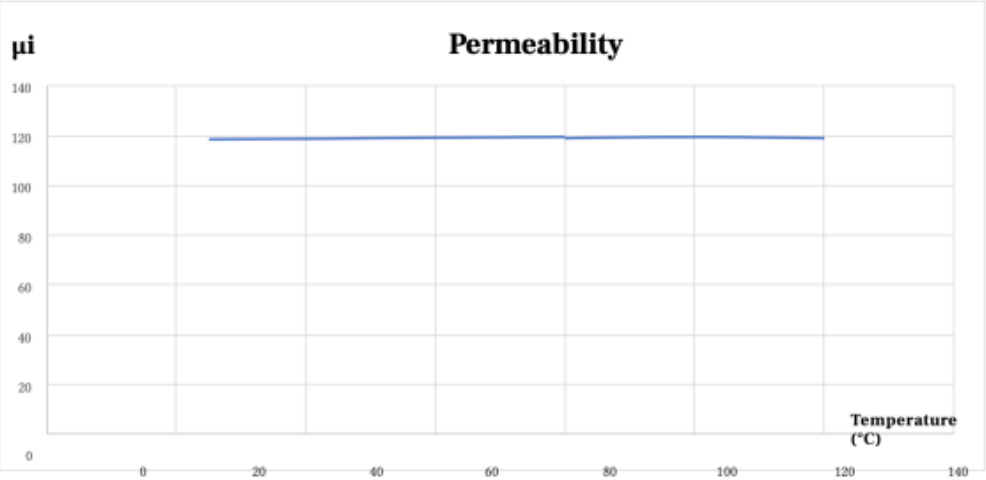
- **Excellent high-frequency performance**

Typical data measured on φ8×φ4×3 ring core; final values depend on geometry.

TECHNICAL DATA

High-Temperature Stability





Material Characteristics

- Lower loss than ferrite at high temperature
- Stable permeability over temperature

Typical data measured on φ8×φ4×3 ring core; final values depend on geometry.