

Primary Material Characteristics and Major Applications

Molybdenum Permalloy Powder (MPP) Cores:

Magnetic Characteristics

- Relatively high saturation flux density
- Low residual flux density
- Excellent temperature stability
- Low core losses
- Excellent Inductance stability under high DC bias conditions

Major Applications

- Direct current output inductors for SMPS
- High Q Filters
- Loading coils
- EMI/RFI filters
- Many other precision applications

High Flux Powder Cores:

Magnetic Characteristics

- Highest biasing capability
- High saturation flux density of 15,000G compared to 7,000G for MPP and 10,000G for Sendust
- Relatively low core loss

Major Applications

- Power factor correction (PFC) circuits
- Switching regulator inductors
- In-line noise filters
- Pulse and flyback transformers

Sendust Powder Cores:

Magnetic Characteristics

- Core losses significantly lower than powdered iron
- Good DC bias characteristics
- Cost between powdered iron and MPP

Major Applications

- Power factor correction (PFC) circuits
- Switching regulator inductors
- In-line noise filters
- Pulse and flyback transformers