

HIGH FLUX

Description

- 50/50 Nickel iron powder
- Distributed air gap throughout core material
- Good energy storage ability
- Lower core losses than iron powder cores
- Lower cost than MPP
- High Saturation flux density (Bsat)
- Good temperature stability

Characteristics

Material name	High Flux
Material grade	83
Permeability (μ i) at 10kHz, 10 gauss	60
Power Loss Density (mW/cm ³) at 50 kHz, 1000 gauss	645
Flux Density at 200 Oersteds (gauss)	8000
DC bias measured at 80% permeability (Oersteds)	78
Maximum Operating Temperature (°C)	200
Core colour	light blue

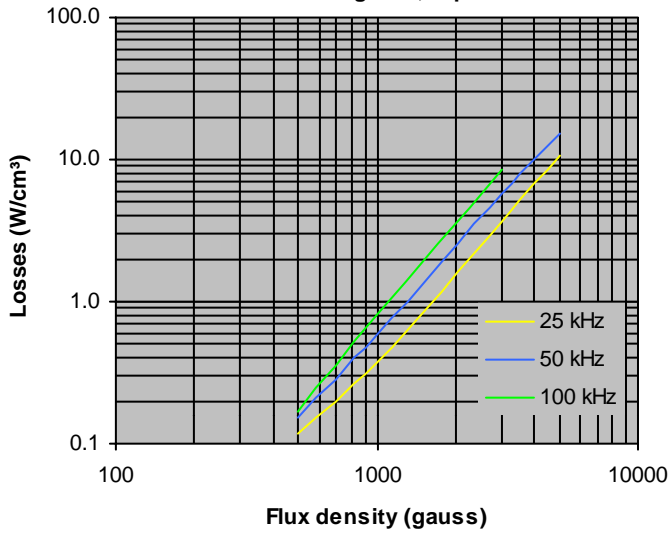
Note: The values listed above are typical and may vary depending on core shape and size. Permeability is for reference only as cores are made to the AL values listed.

Typical Applications

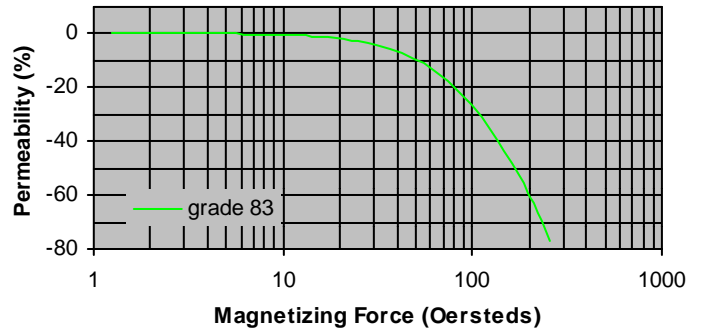
- Power factor correction inductors
- DC/DC converter cores
- SMPS output chokes

Performance graphs

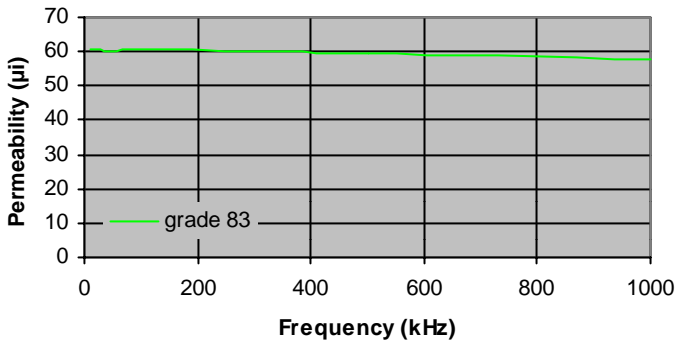
Power Loss Density vs Flux Density
83 grade, 60 μ i



Permeability vs DC Bias



Permeability vs Frequency



Permeability vs Frequency

