

# MPP (molypermalloy powder)

## Description

- 80% nickel, 2% molybdenum iron alloy powder
- Distributed air gap throughout core material
- Relatively High Saturation flux density (Bs)
- Low residual flux density
- High temperature stability
- Lowest core losses

## Characteristics

Material name	<b>MPP</b>
Material grade	<b>97</b>
Permeability ( $\mu$ i) at 10kHz, 10 gauss	<b>160</b>
Power Loss Density (mW/cm <sup>3</sup> ) at 50 kHz, 1000 gauss	<b>400</b>
Flux Density at 200 Oersteds (gauss)	<b>7600</b>
DC bias measured at 80% permeability (Oersteds)	<b>20</b>
Maximum Operating Temperature (°C)	<b>200</b>
Core colour	<b>Dark blue</b>

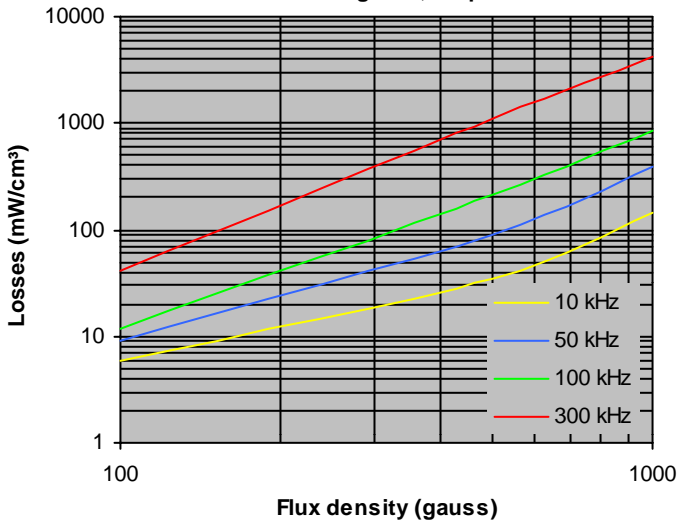
Note: The values listed above are typical and may vary depending on core shape and size. Permeability is for reference only as cores are made to the AL values listed.

## Typical Applications

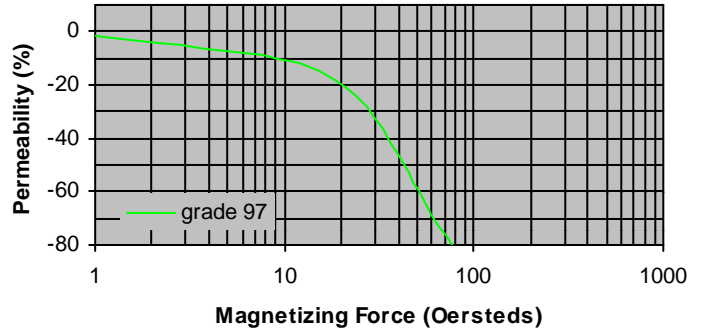
- Output filter inductors for SMPS
- High Q filters
- EMI / RFI filters

Performance graphs

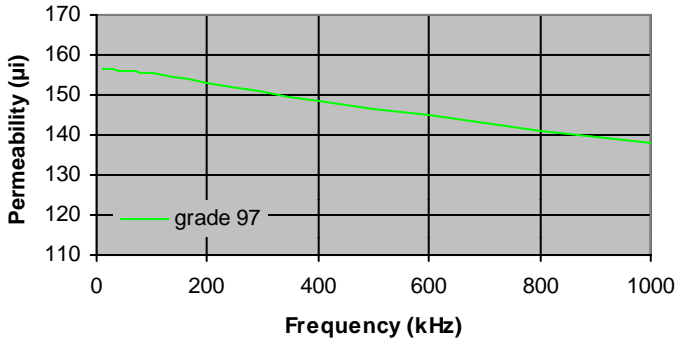
Power Loss Density vs Flux Density  
97 grade, 160 $\mu$ i



Permeability vs DC Bias



Permeability vs Frequency



Permeability vs Frequency

