Material Characteristics - AG series

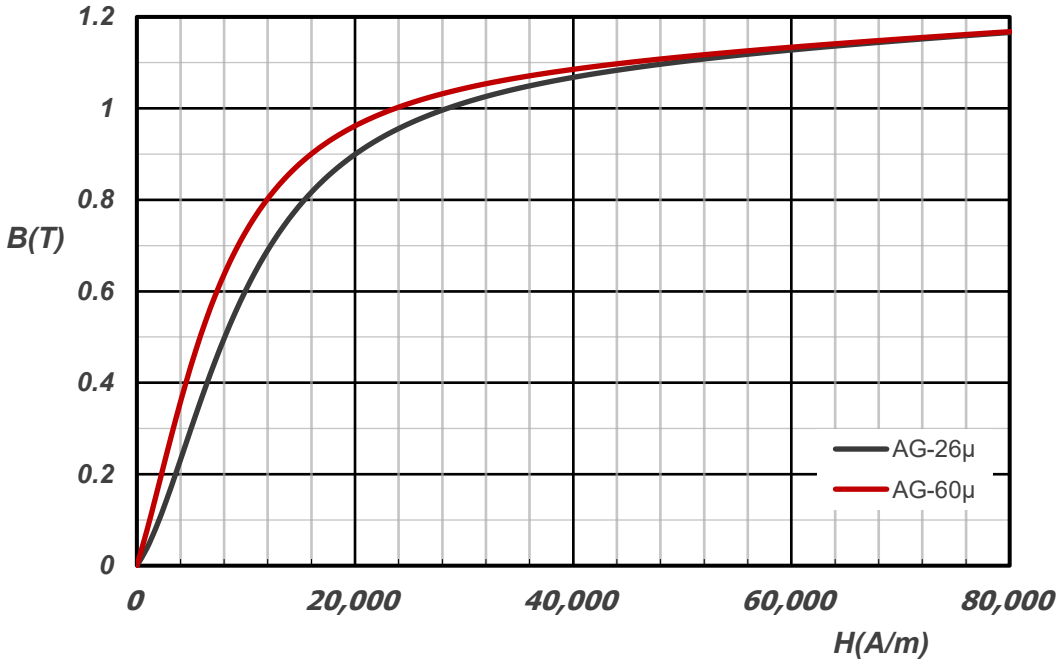
Features

- ◆ Lowest core loss characteristics
- ◆ Good DC-bias performance
- ◆ Excellent temp. and freq. stability

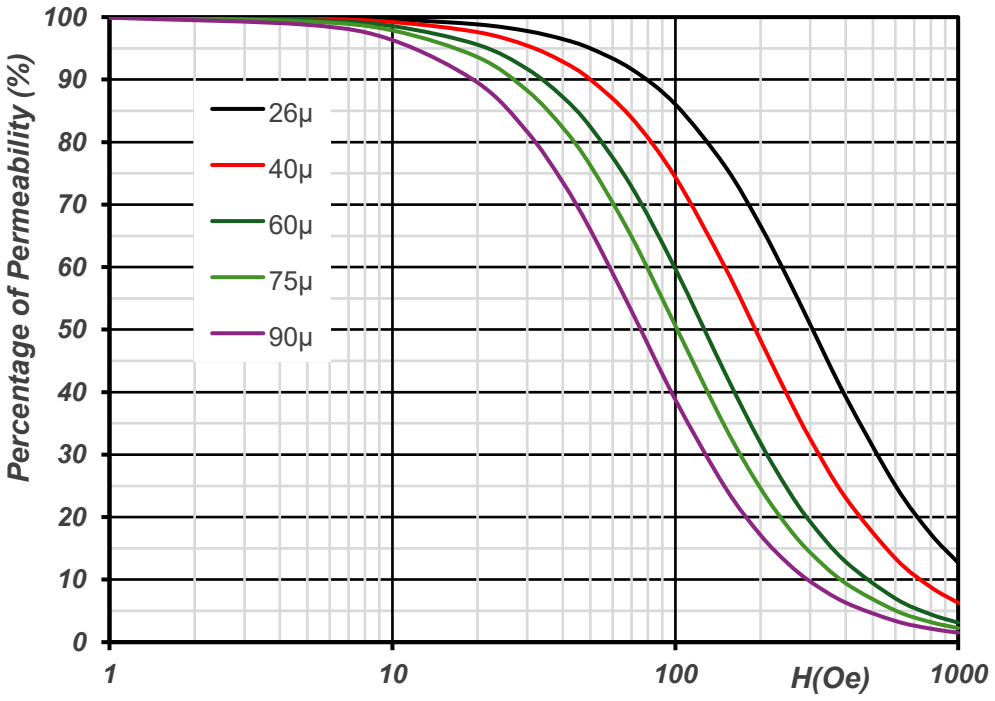
Applications

- ◆ Server power supply
- ◆ PFC inductor
- ◆ >50kHz power applications

Saturation Flux Density vs Magnetic Field



Percent Initial Permeability vs DC Magnetizing Force



Material Characteristics - AG series

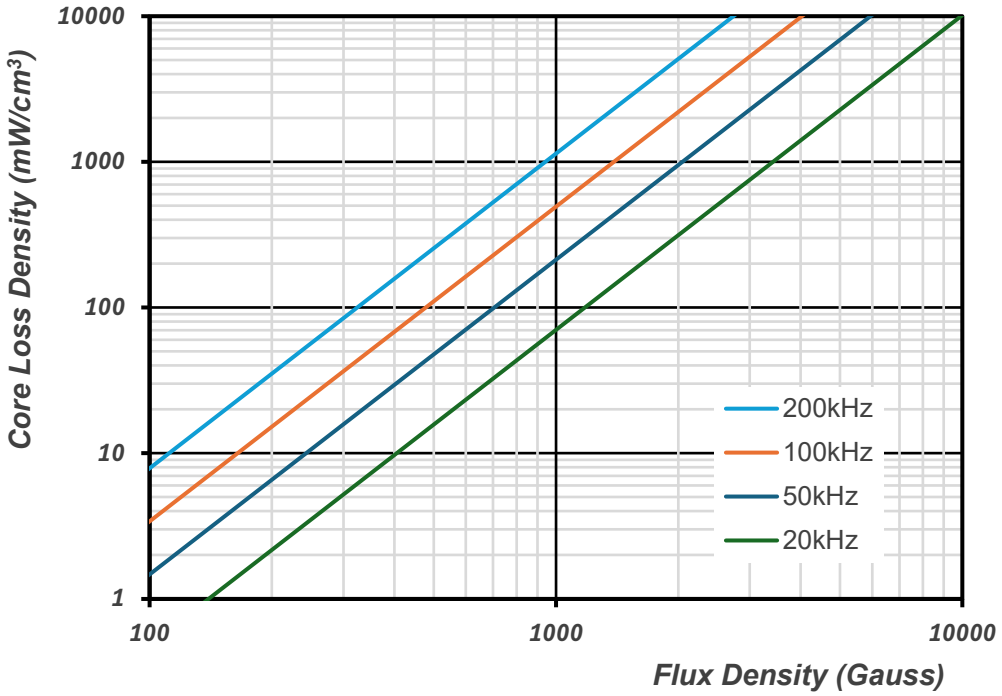
The curve fitting process gives rise to the following core loss density Pv(mW/cm^3) equation：

$$Pv(mW/cm^3) = Cm \cdot f^x \cdot B^y$$

**frequency(f) unit in kHz and flux density(B) unit in kGauss*

μ_e	C_m	x	y
26 & 40	1.872	1.21	2.16
60 & 75 90	0.935	1.43	2.13

Typical Core Loss Curves (26μ, 40μ)



Typical Core Loss Curves (60μ, 75μ, 90μ)