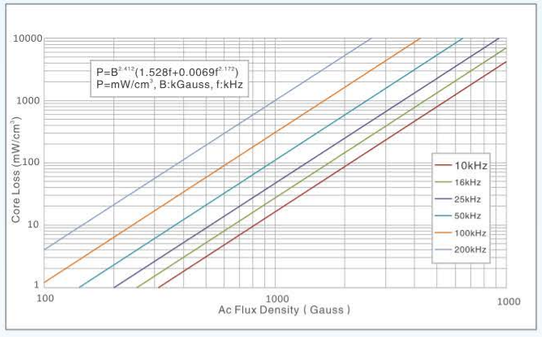
The Third Generation High Performance High Flux Material

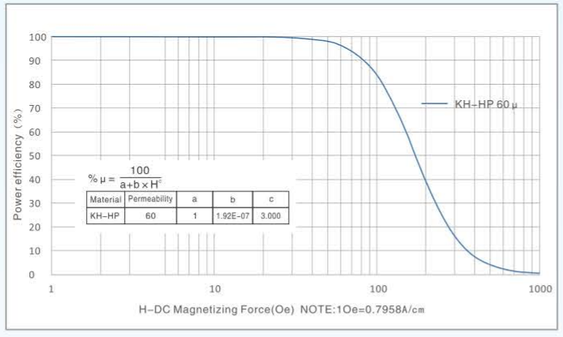
KH-HP Cores

KH-HP is a high performance High Flux material with good DC-bias characteristics and ultra low core loss. Compare with High Flux (KH) and High Flux Plus (KH-H), KH-HP has much lower core loss, so the efficiency of the applications will be highly improved. And as it also has the similar DC-bias characteristics with High Flux (KH) and High Flux Plus (KH-H), the volume of the applications could be effectively reduced. Due to its excellent temperature stability, KH-HP could be used in sever power supply, telecom power supply and etc.

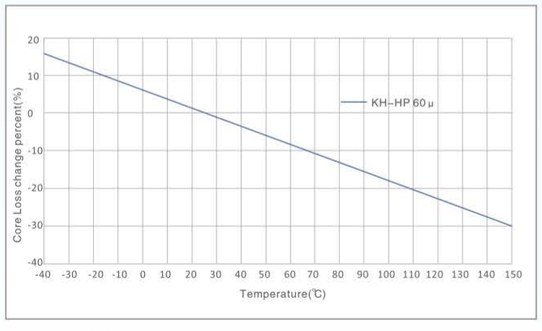
Core Loss Curve (KH-HP 60μ)



Typical DC-Bias Curve (KH-HP 60μ)



Core Loss Vs Temperature Curve (KH-HP 60μ)



Performance Table of Materials

Material	Permeability (μ)	Core loss (mW/cm³) @50kHz/100mT	Core loss (mW/cm³) @100kHz/100mT	DC-Bias (%μ) @100Oe	Bs(T)
KH-HP	60	115	300	83%	1.5
High Flux(KH)	60	210	565	82%	1.5
High Flux Plus (KH-H)	60	150	395	85%	1.5
Nanodust (KAM)	60	180	468	65%	1.2

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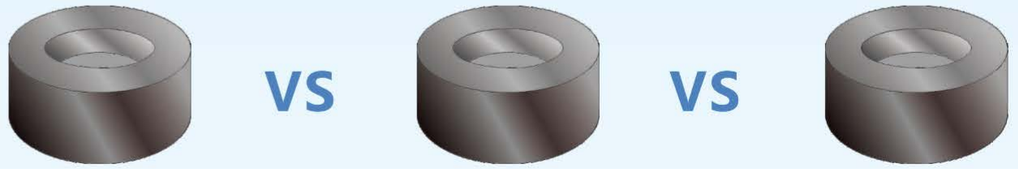
KH-HP Cores

Soft Magnetic Material used in High Efficiency and High Power Density Applications

Case Study

2200W High Efficiency Sever Power Supply Comparison



KH106-060A-E18 VS KH106-060A-E18-H VS KH106-060A-E18-HP

Power Efficiency Comparison of Different High Flux Materials