

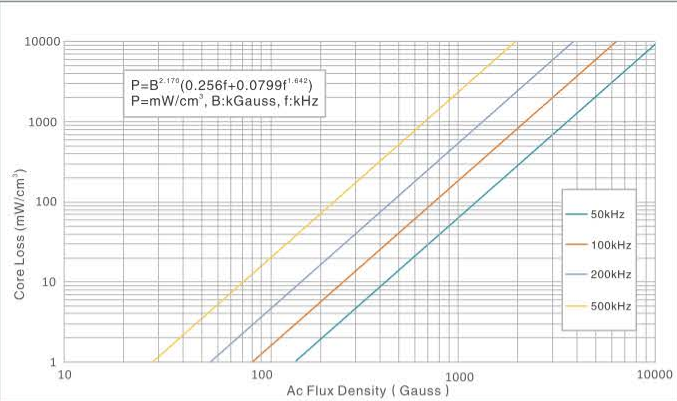
A Superior Solution with Low Core Loss
for High Frequency Applications

KAM-HP Cores

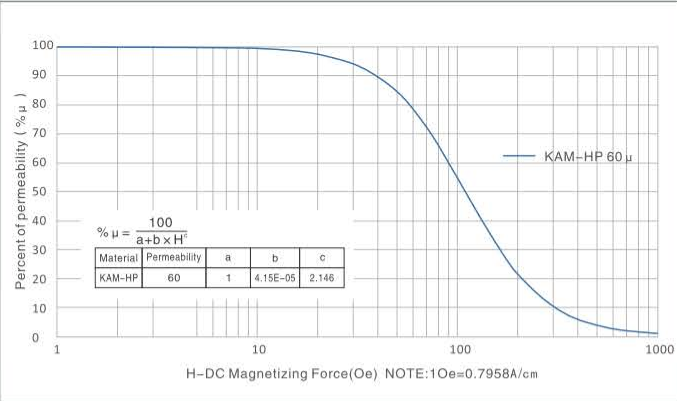


✓**KAM-HP** is a new material which is suitable for high frequency (50–500kHz). It has good DC-bias characteristics and lower core loss at high frequency condition. Compare with Sendust (KS), KAM-HP has much lower core loss, and its core loss is around 20% of Sendust (KS) at 500kHz. Therefore, the efficiency of the applications will be significantly improved. At the same time, KAM-HP has better DC-bias characteristics than Sendust (KS), so the volume of the applications could be effectively reduced. With good temperature stability, KAM-HP could be applied in charging piles, PFC and Resonant inductor on Automotive OBC, high frequency VRM chokes and etc.

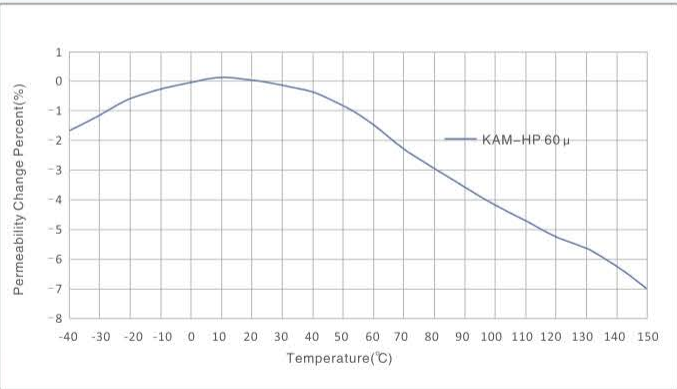
Core Loss Curve (KAM-HP 60 μ)



Typical DC-Bias Curve (KAM-HP 60 μ)



Permeability vs Temperature Curve (KAM-HP 60 μ)



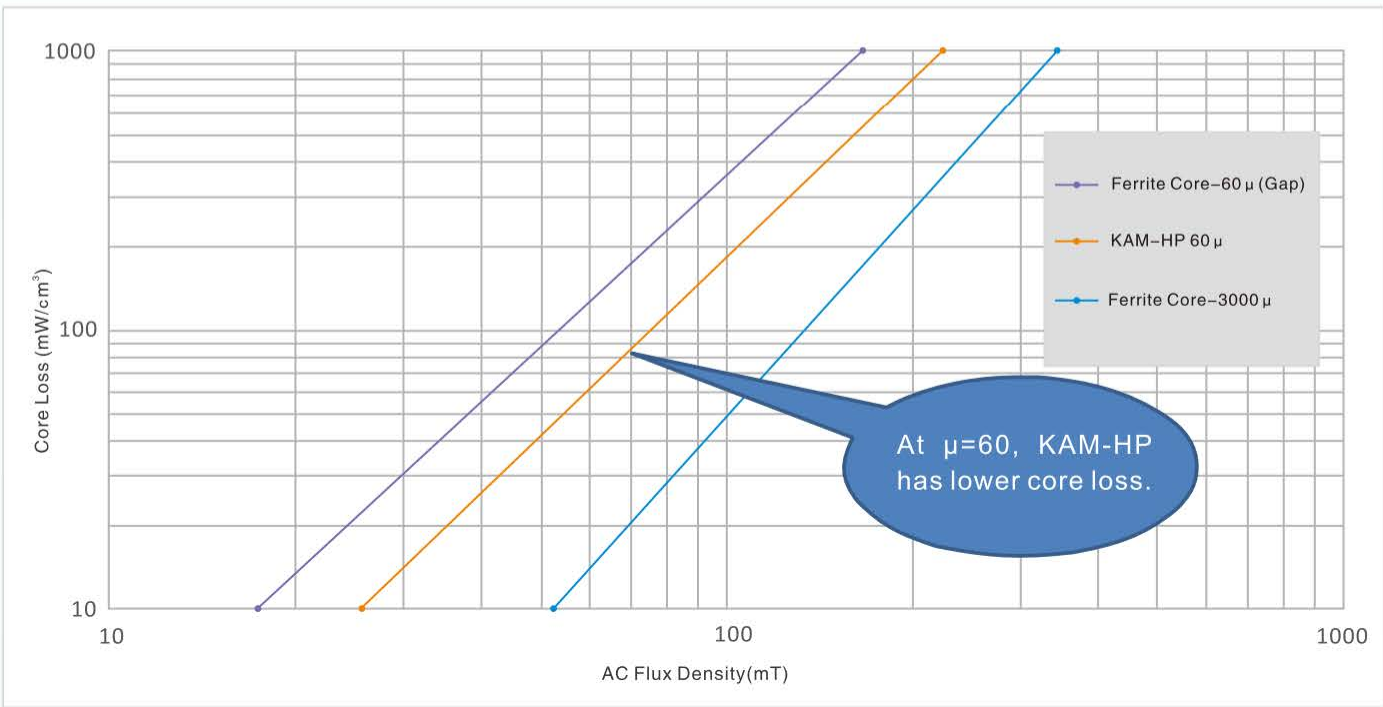
Performance Table of Materials

Material	Permeability (μ)	Typical Core loss (mw/cm³) @50kHz/100mT	Typical Core loss (mw/cm³) @100kHz/100mT	Typical Core loss (mw/cm³) @500kHz/50mT	DC-Bias (%μ) @100Oe	Bs (T)
KAM-HP	60	62	180	500	55%	1.05
Sendust (KS)	60	280	660	1520	47%	1.05
Nanodust (KAM-AF)	60	150	373	1138	53%	1.05
Nanodust (KAM)	60	180	468	1421	65%	1.2

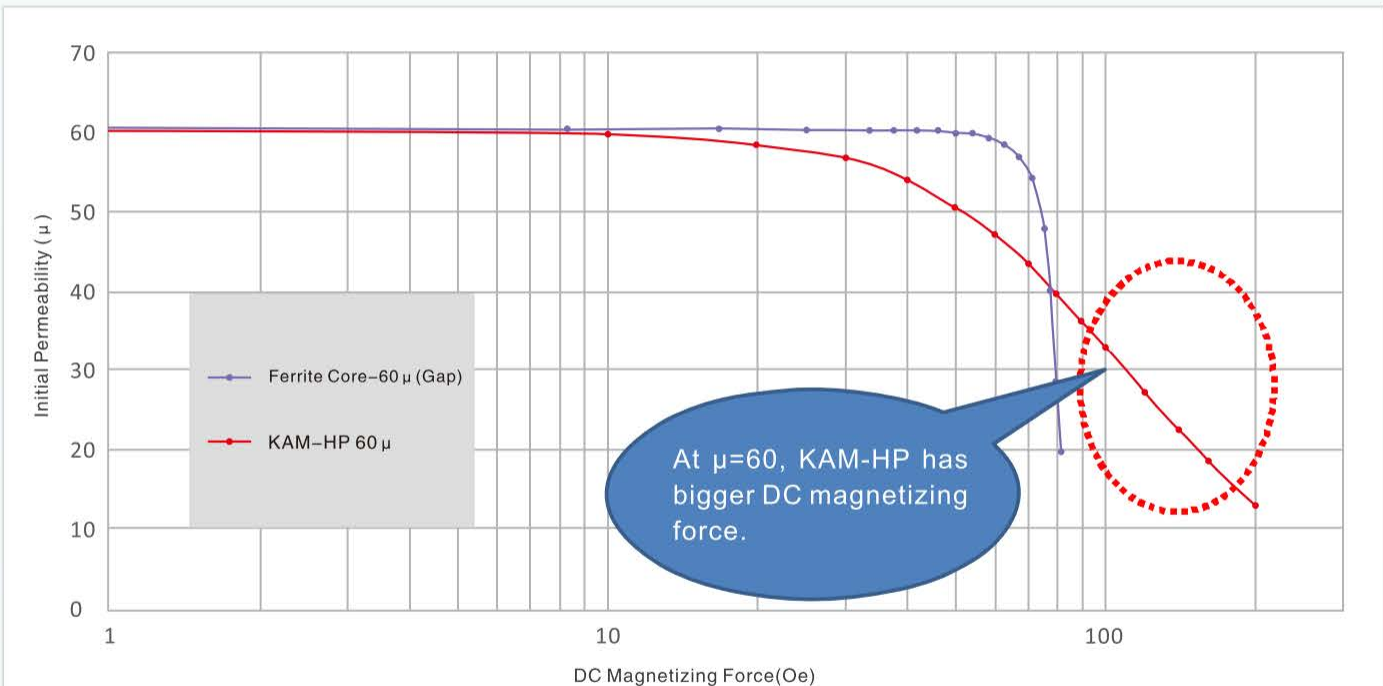
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Permeability VS Core Loss Curve (Compare with Ferrite Core) (@100kHz)



Permeability VS DC Magnetizing Force (Compare with Ferrite Core)



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