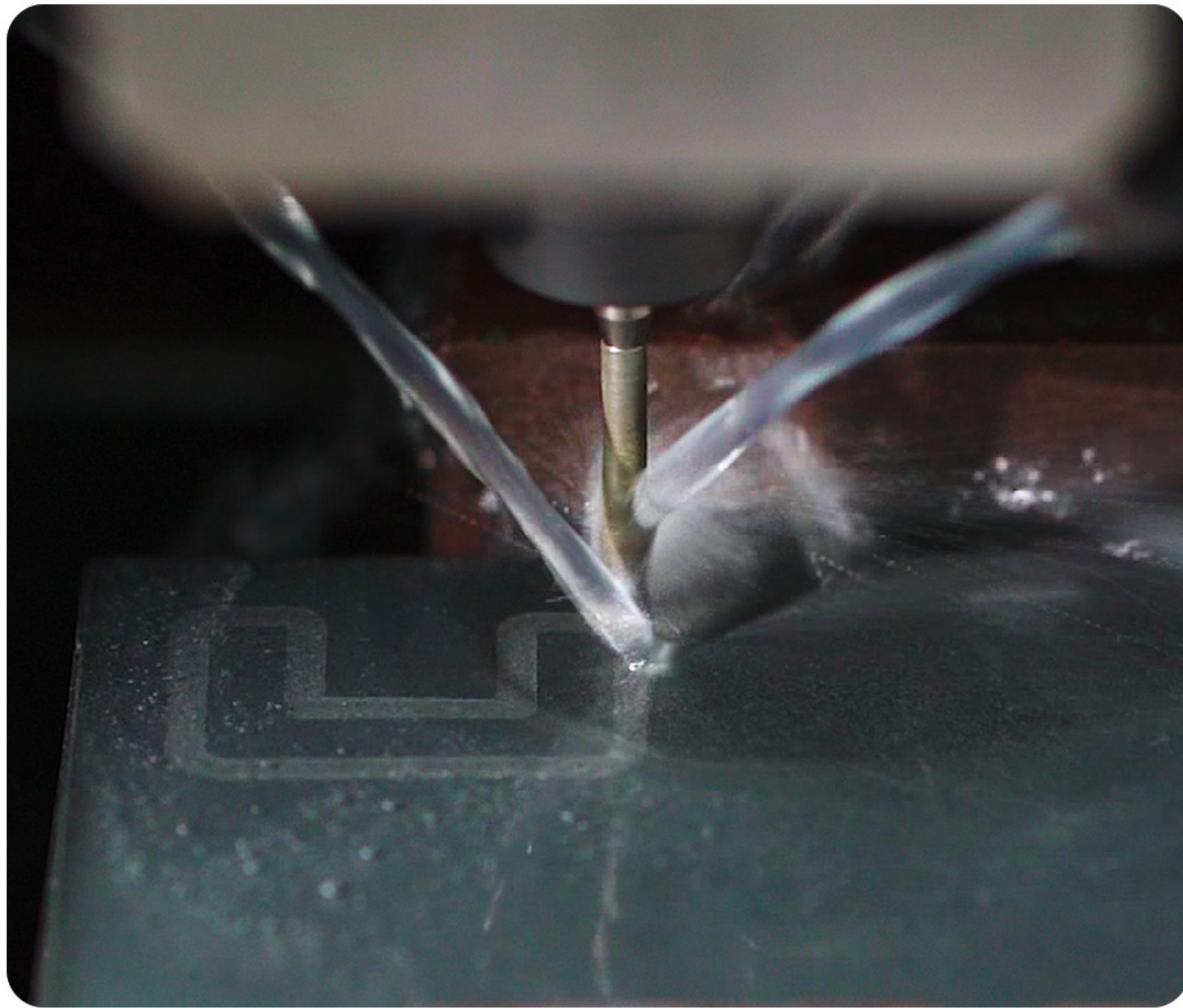


P 产品展示 Product Display

金属软磁粉芯产品 Magnetic Powder Cores



规格尺寸概括 Specifications



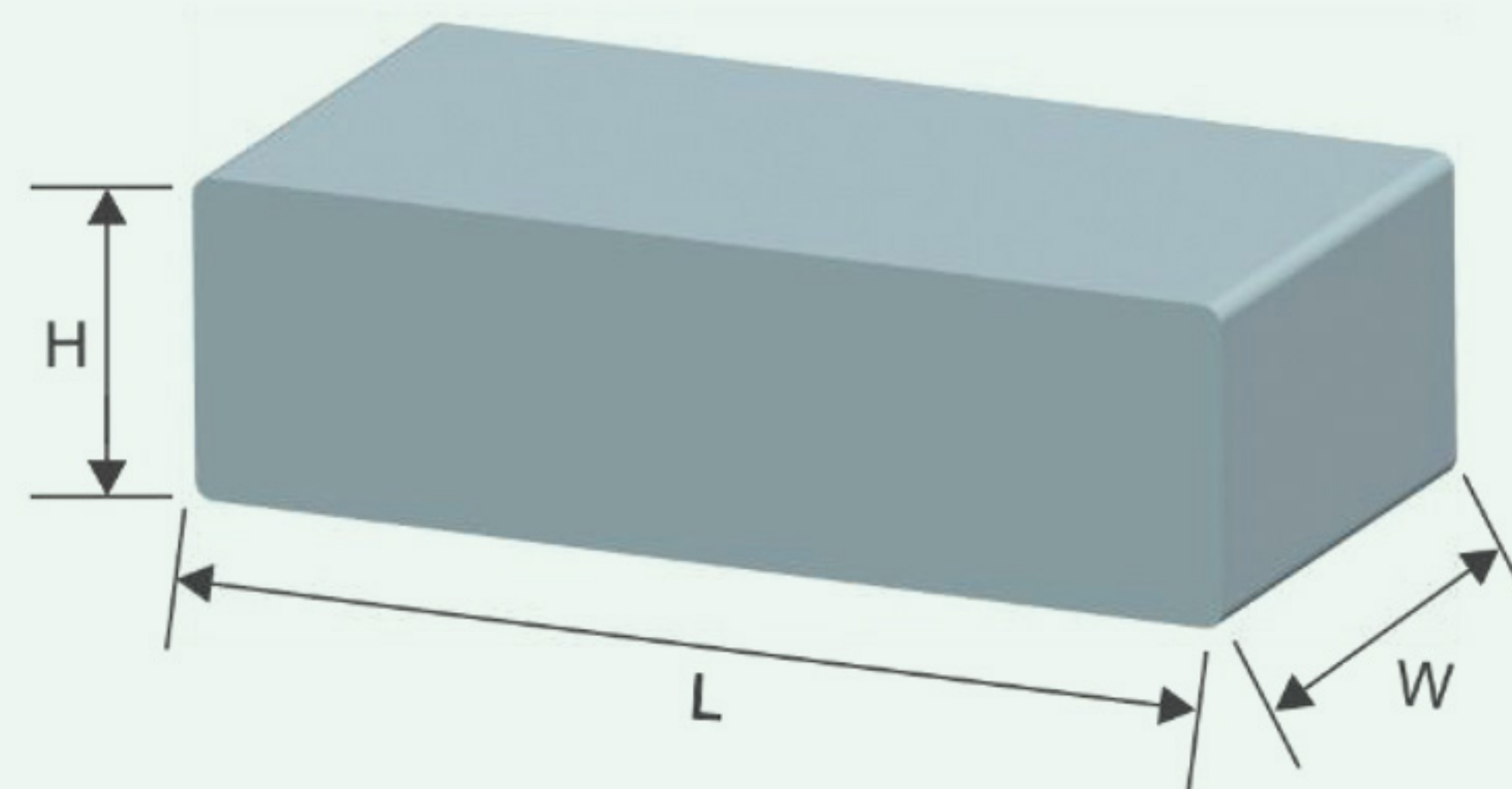
雕刻尺寸范围 (Size range by CNC) : 98mm*40mm*30mm

雕刻周期 (Lead time by CNC): 7-15 days

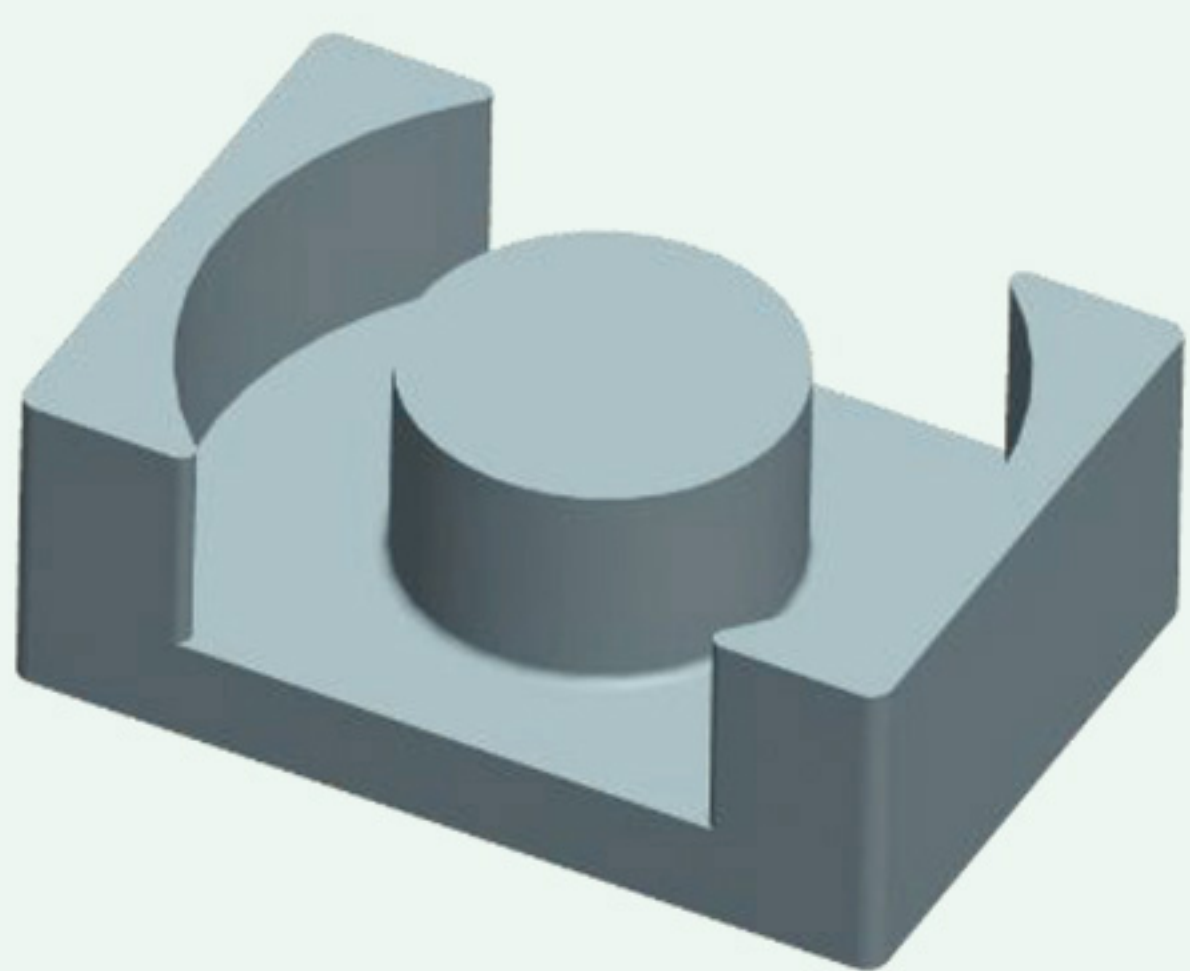
T106~T400



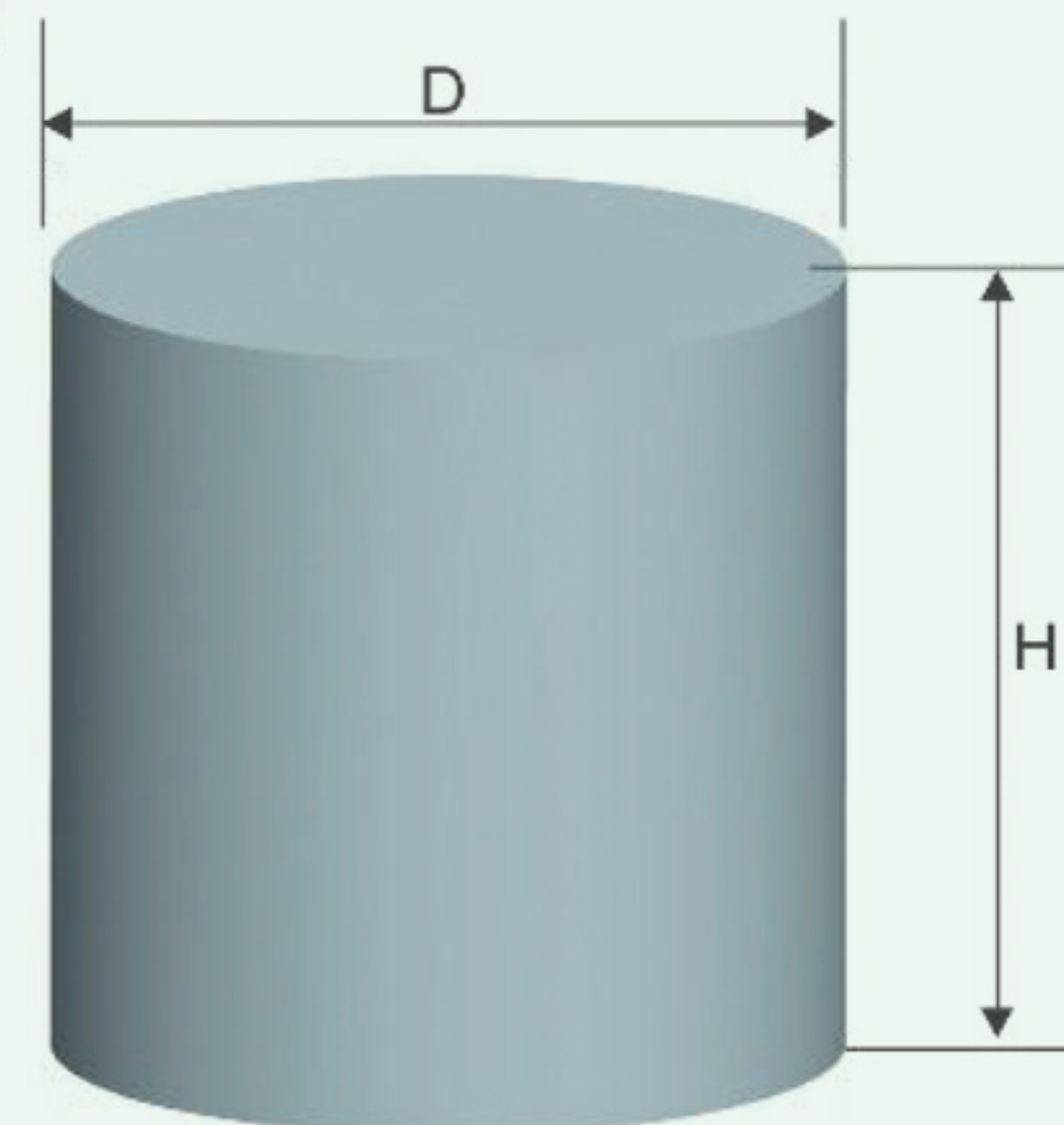
I50/20/20 ~ 1100/40/20



EQ 26.5 ~ EQ 50.0



AR15 ~ AR75



C 金属粉芯材料特性 Characteristics of Metal Powder Core Material

铁硅铝 Sendust Cores (SS 系列 / SS Series)

铁硅铝磁粉芯由85%的铁、9.6%的硅、5.4%铝构成，主要是替代铁粉芯，损耗比铁粉芯低80%，可在50Hz~2MHz频率范围内使用；饱和磁通密度在1.05T左右；磁导率从26—125；磁滞伸缩系数接近零，在不同的频率下工作时无噪声产生，比MPP有更高的DC偏压能力，具有最佳的性能价格比。主要应用于交流电感、输出电感、线路滤波器、功率因数校正电感等。

大型铁硅铝应用于大电流（功率）电感器、太阳能转换、UPS 不断电系统、混合动力汽车、风能转换和其他大电流场合，有时也替代气隙铁氧体作变压器铁芯使用。

The sendust core is typically composed of 85% Fe, 9.6% Si, and 5.4% Al. It is mainly used to replace the iron powder core. Its loss is 80% lower than that of the iron powder core. It can be used in the frequency range of 50Hz to 2MHz; the saturation magnetic flux density is about 1.05T; the magnetic permeability is from 26 to 125; the hysteresis coefficient is close to zero, and there is no noise when working at different frequencies. It has higher DC bias capability than MPP and has the best performance-price ratio. The sendust core is mainly used in AC inductors, output inductors, line filters, power factor correction inductors, etc. Large-scale sendust is used in high-current (power) inductors, solar energy conversion, UPS, hybrid electric vehicles, wind energy conversion and other high-current applications, and sometimes replaces air-gap ferrite for transformer cores.

铁硅 FeSi Cores (SK 系列 / SK Series)

铁硅磁粉芯是由6.5%的硅和93.5%的铁制成。饱和磁通密度在1.6T左右；磁导率范围26~90；FeSi磁芯是一种名副其实的高温材料，不存在热老化问题，它的磁芯损耗比铁粉芯的更低，并具有优异的直流偏置性能，主要应用于PFC电路、新能源(太阳能、风能、混合动力)逆变器、不间断电源(UPS)等。

The FeSi core is typically composed of 6.5% Si and 93.5% Fe. Its saturation magnetic flux density is about 1.6T; the magnetic permeability ranges from 26 to 90; the FeSi core is a veritable high-temperature material, and there is no thermal aging problem. Its core loss is lower than that of the iron powder core, and it has excellent DC bias performance. The FeSi core is mainly used in PFC circuits, new energy (solar, wind, hybrid) inverters, uninterruptible power supplies (UPS), etc.

铁硅二代 FeSi-2 Cores (SF 系列 / SF Series)

铁硅二代产品直流偏置特性和功率损耗特性与非晶磁粉芯相当，主要应用于家电、分布式光伏逆变器等。和高磁通磁粉芯相比，SF系列是一个较经济的选择；和铁硅铝相比，其直流偏置性能优势明显；与SK系列相比，其损耗性能也大幅提升。

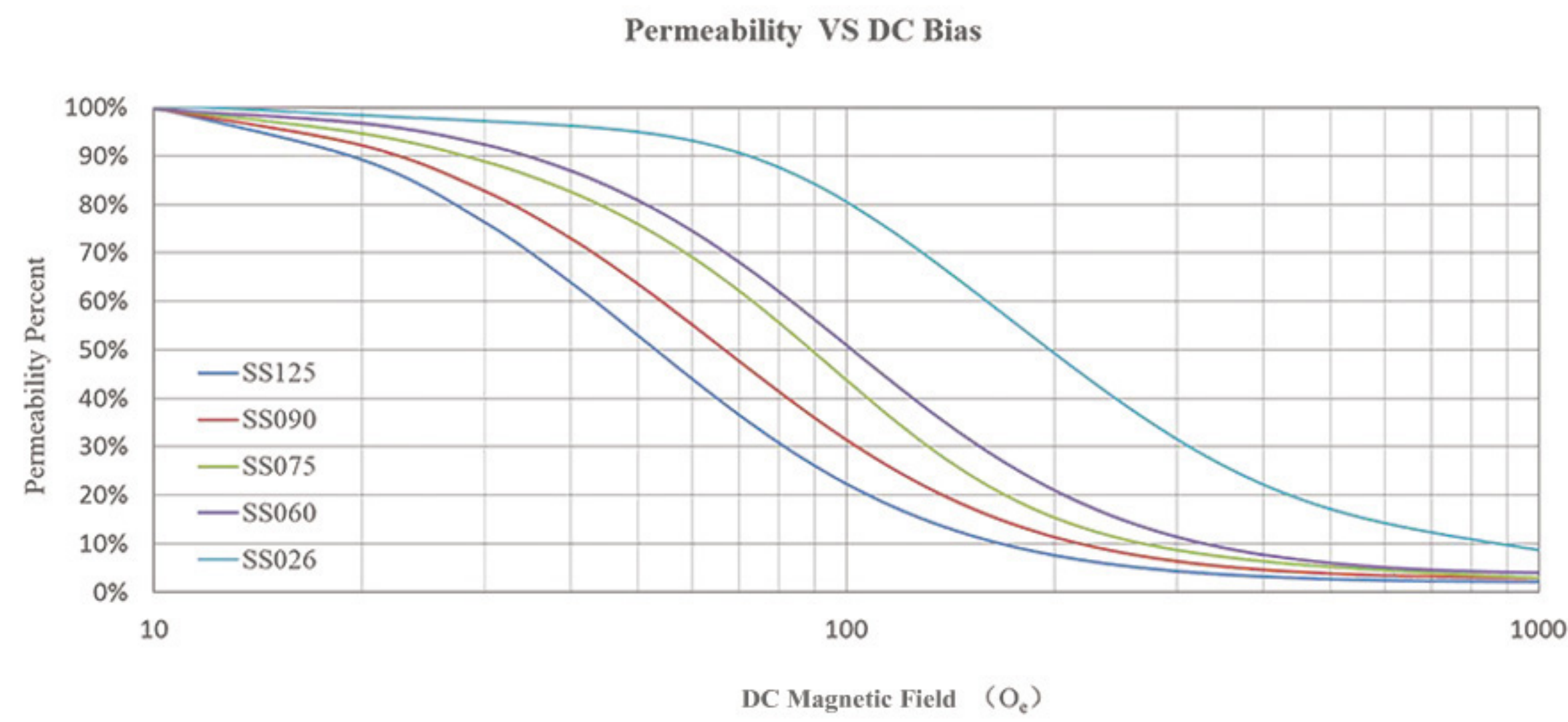
The DC bias characteristics and power loss characteristics of the second-generation FeSi cores are equivalent to those of amorphous magnetic powder cores, and they are mainly used in home appliances, distributed photovoltaic inverters, etc. Compared with high flux magnetic powder cores, the SF type is a more economical choice; compared with sendust, its DC bias performance has obvious advantages; compared with SK series, its performance of core loss is also greatly improved.

| 材料比对 Material Comparison | | | |
|-------------------------------------|-------------|---------|-------------|
| 特性项目 Item | 铁硅铝 Sendust | 铁硅 FeSi | 铁硅二代 FeSi-2 |
| SinoMag P/N | SS | SK | SF |
| μ e60 DC BIAS @100Oe LI/L0 | 48% | 73% | 62% |
| μ e60 Core Loss @50kHz/100mT | 300 | 600 | 380 |
| 成本 Cost | 1.05 | 1.6 | 1.2 |

铁硅铝 | Sendust

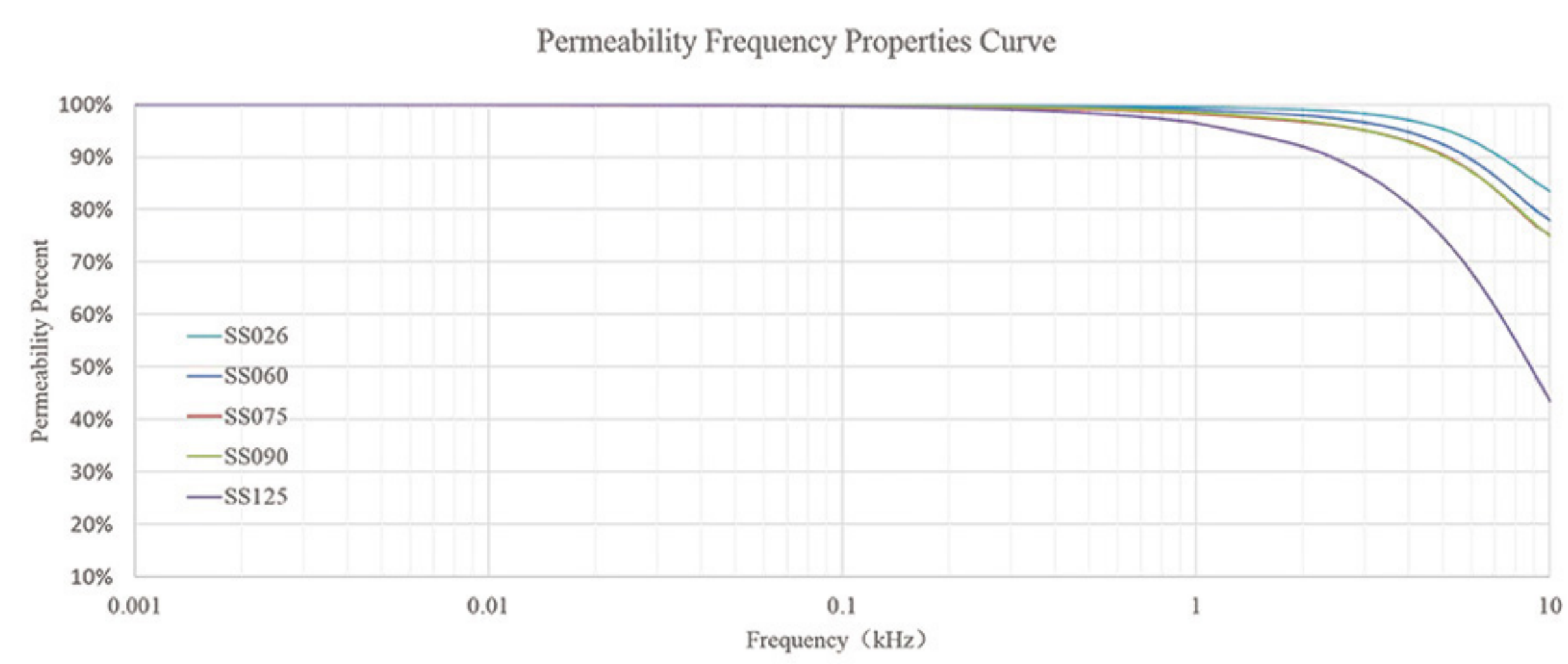
铁硅铝直流偏置曲线

DC Bias Properties of Sendust



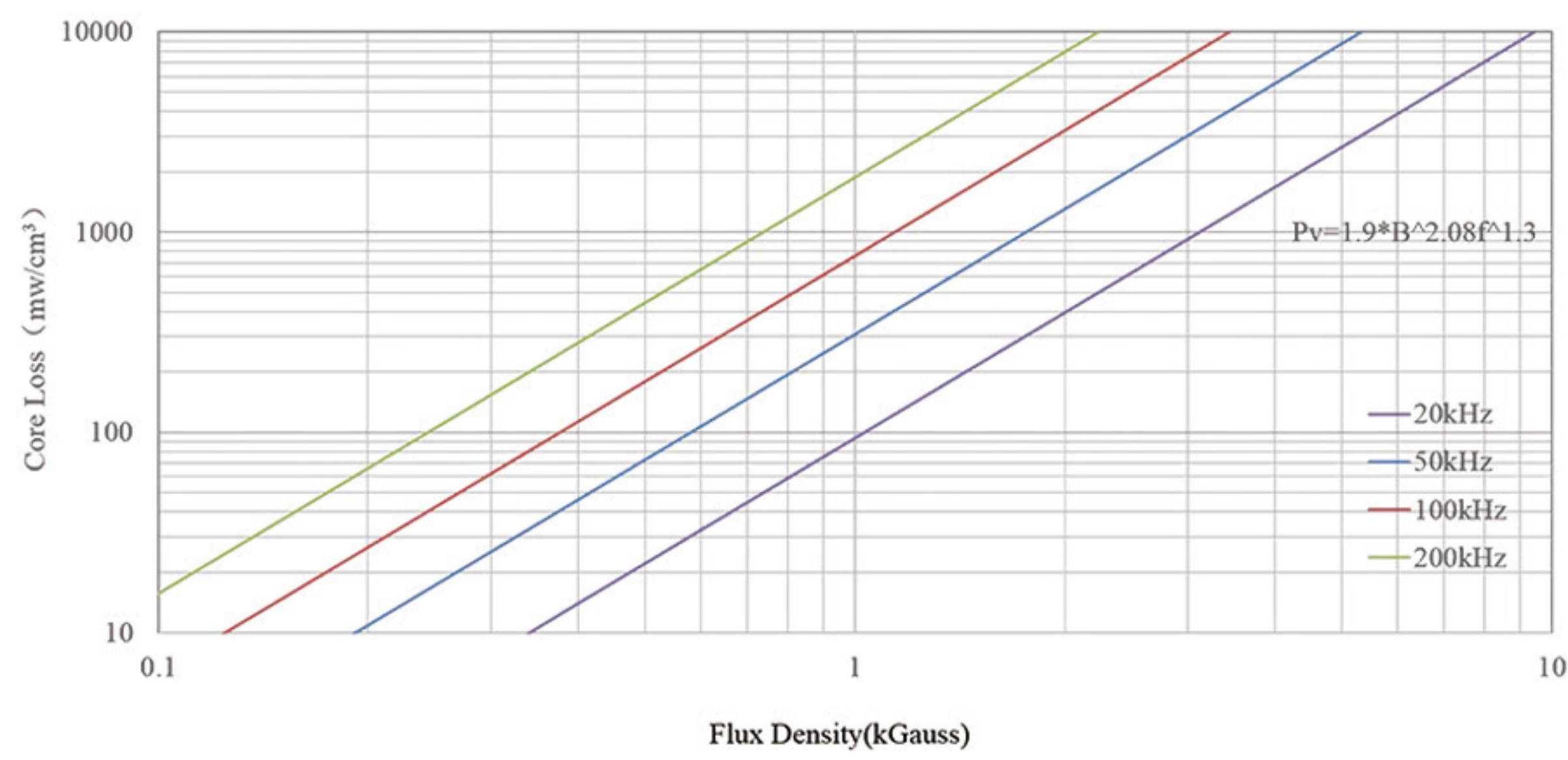
频率特性曲线

Frequency Properties Curve of Sendust



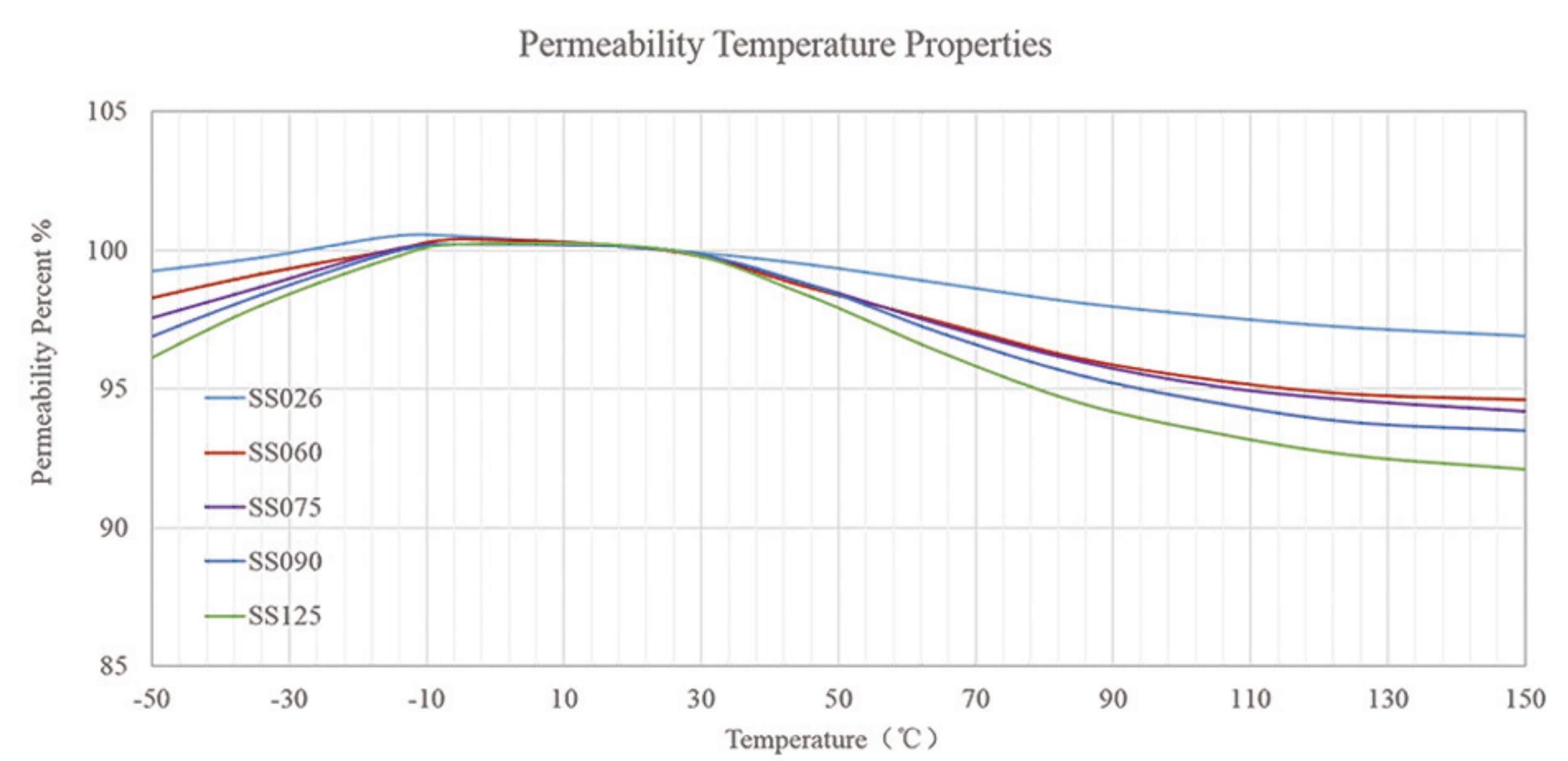
损耗特性曲线 Core Loss

SS series Core Loss



铁硅铝温度特性曲线

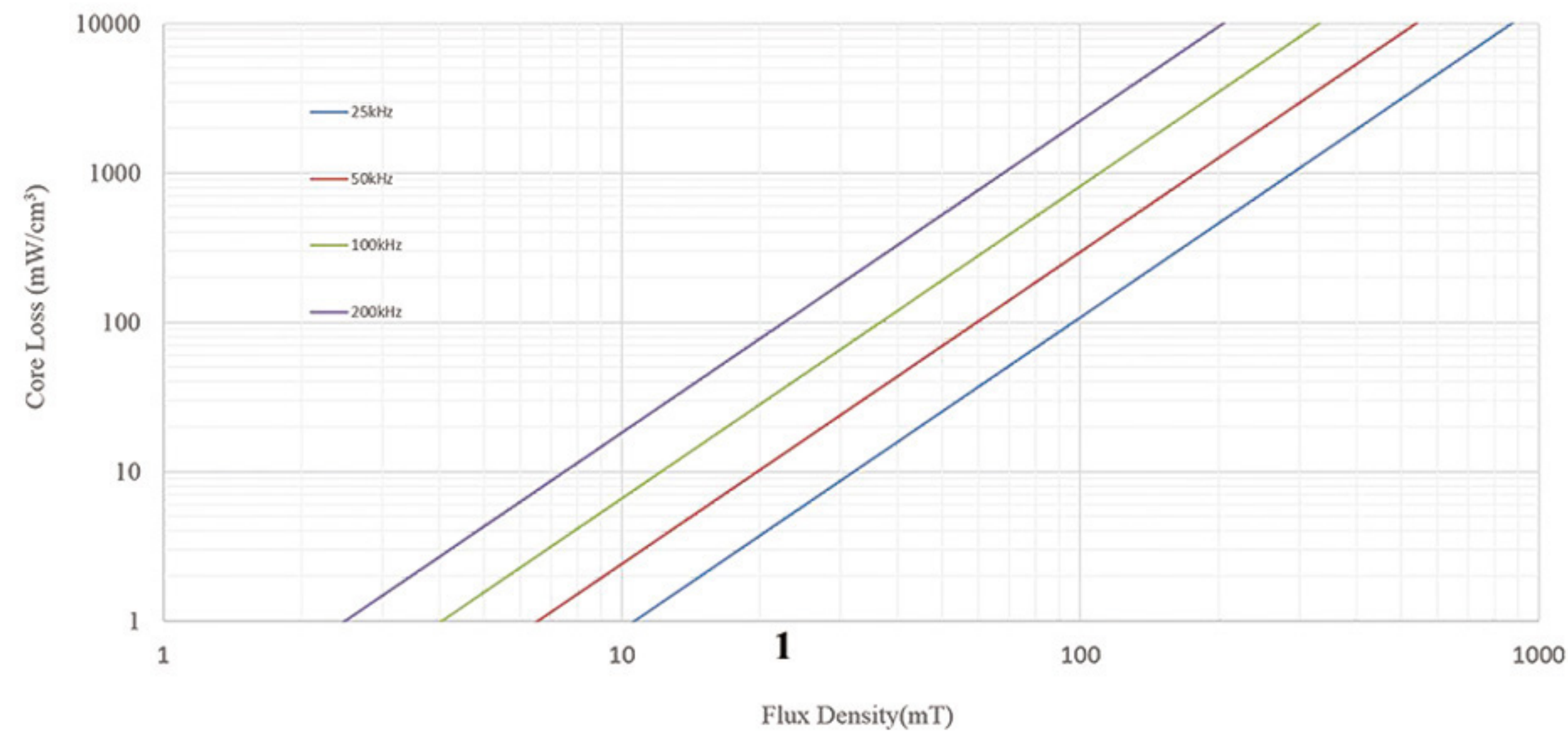
Temperature Properties Curve of Sendust



铁硅铝60μ-125μ 磁心损耗曲线

Core Loss Properties of Sendust 60μ-125μ

SS026 Core Loss

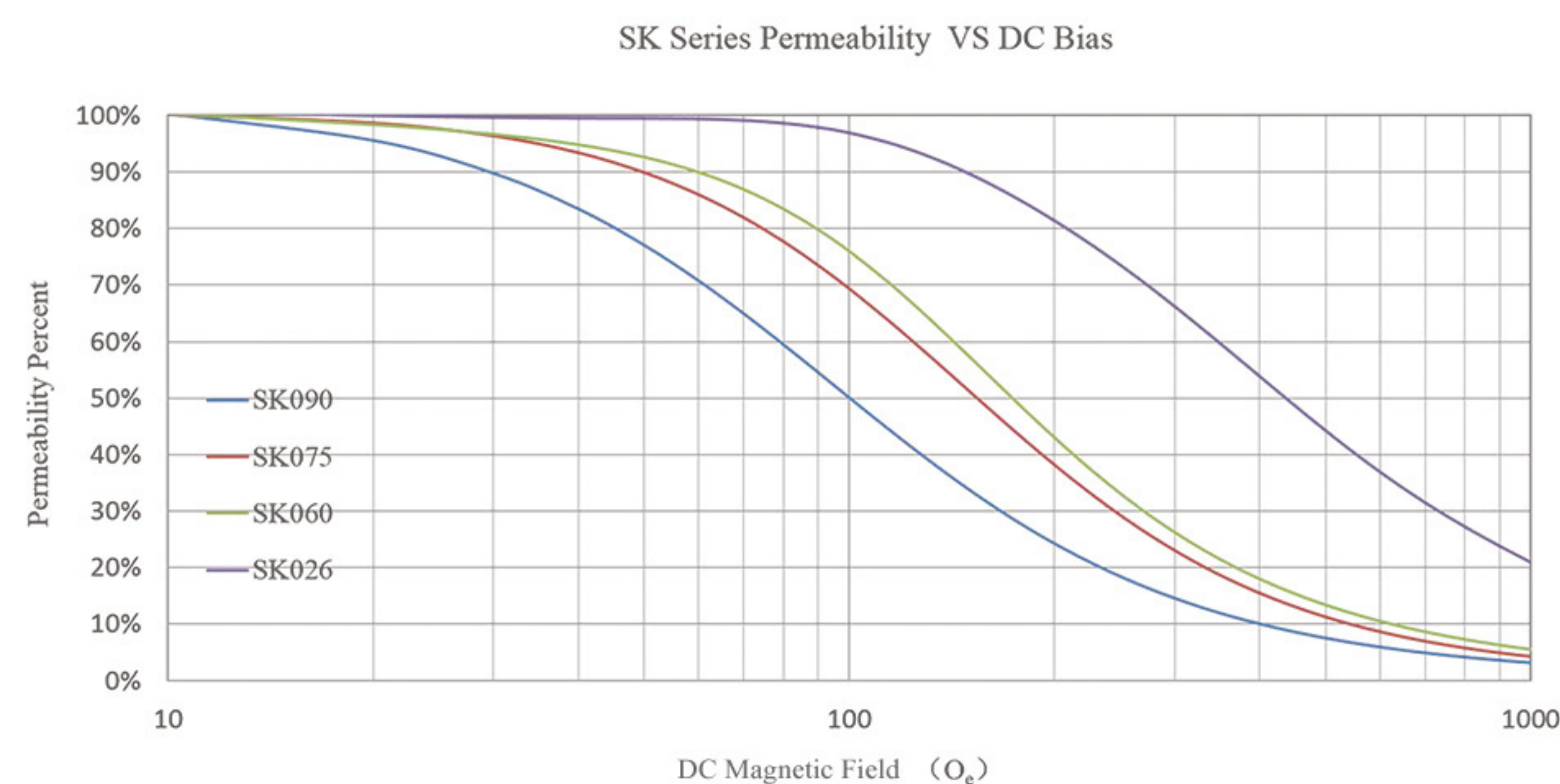


铁硅铝26μ-40μ磁心损耗曲线

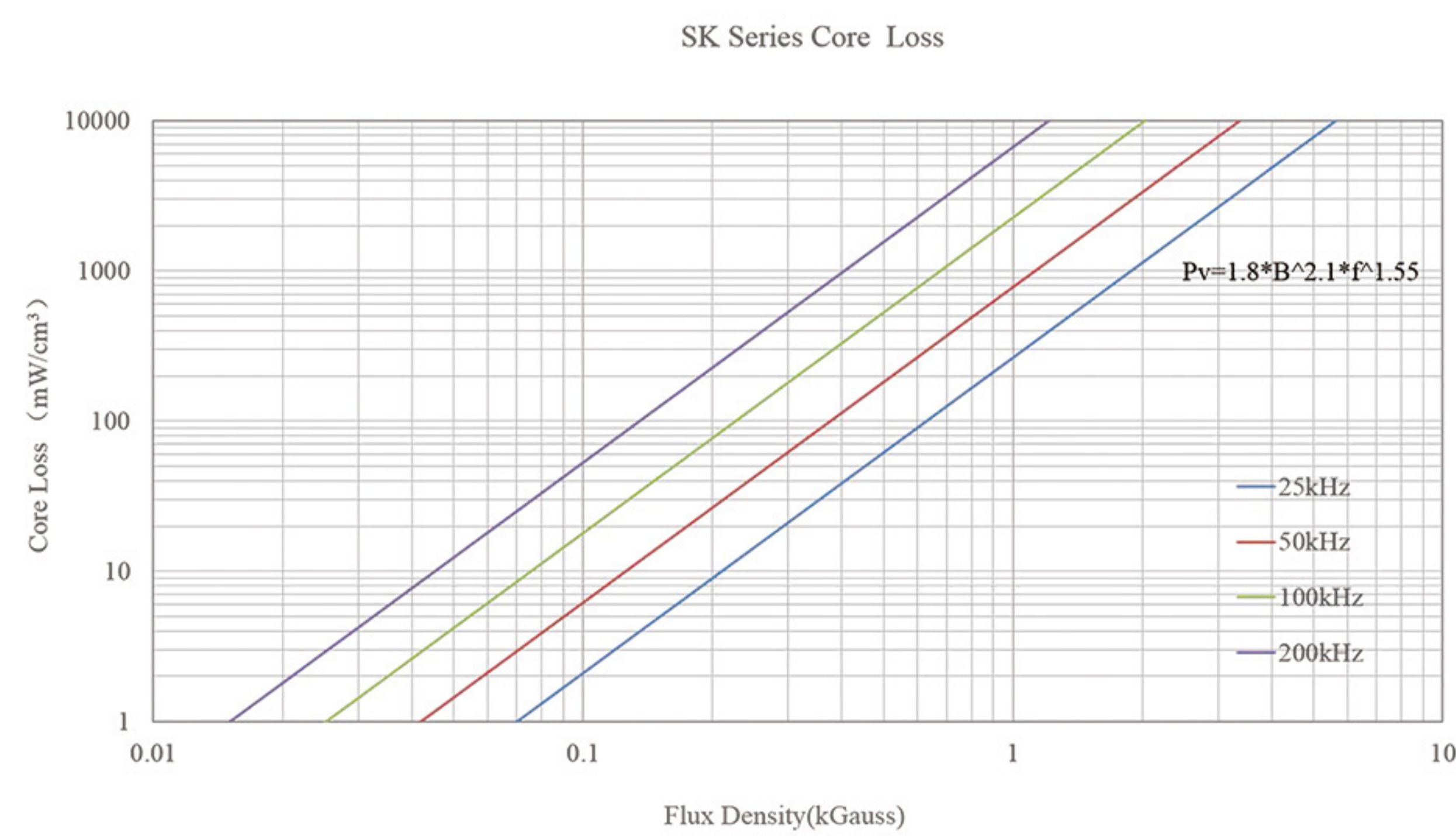
Core Loss Properties of Sendust 20μ-40μ

铁硅 | FeSi

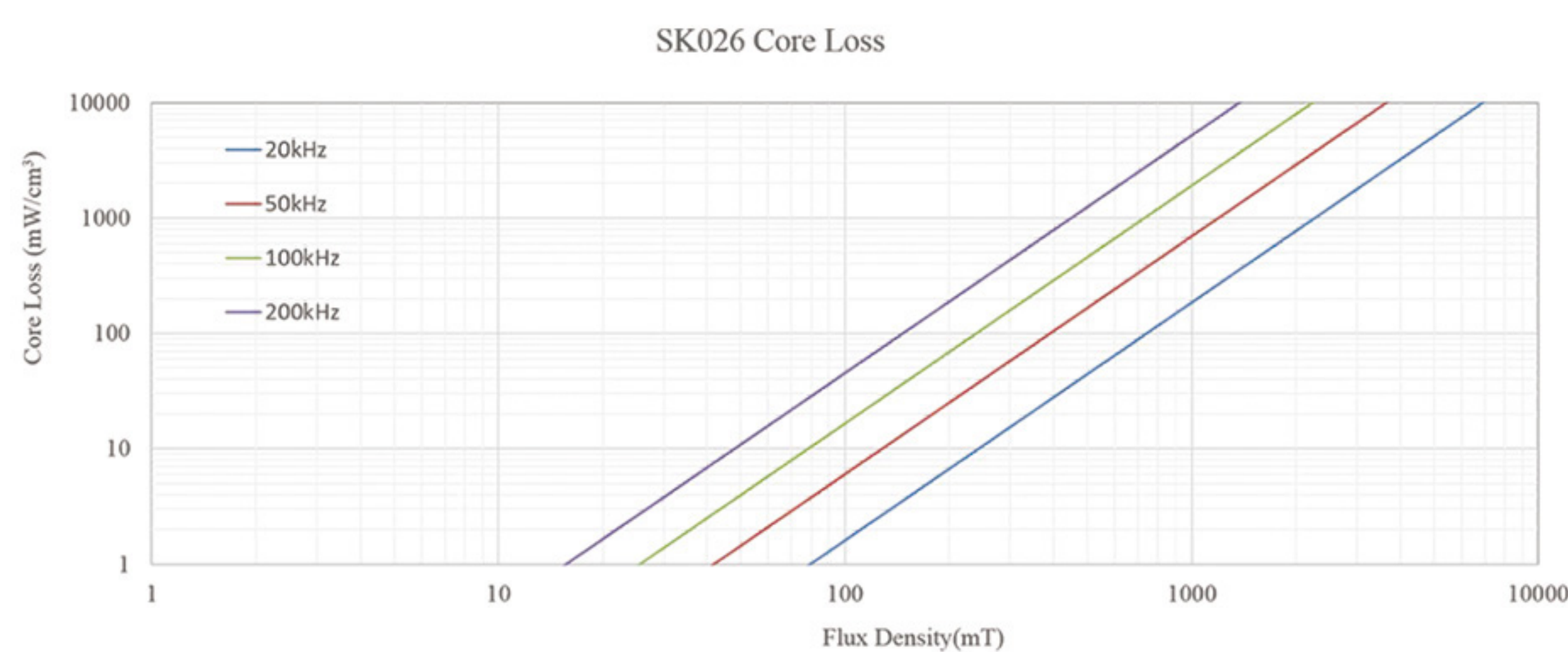
铁硅直流偏置曲线 DC Bias Properties Curve of FeSi



磁芯损耗 Core Loss

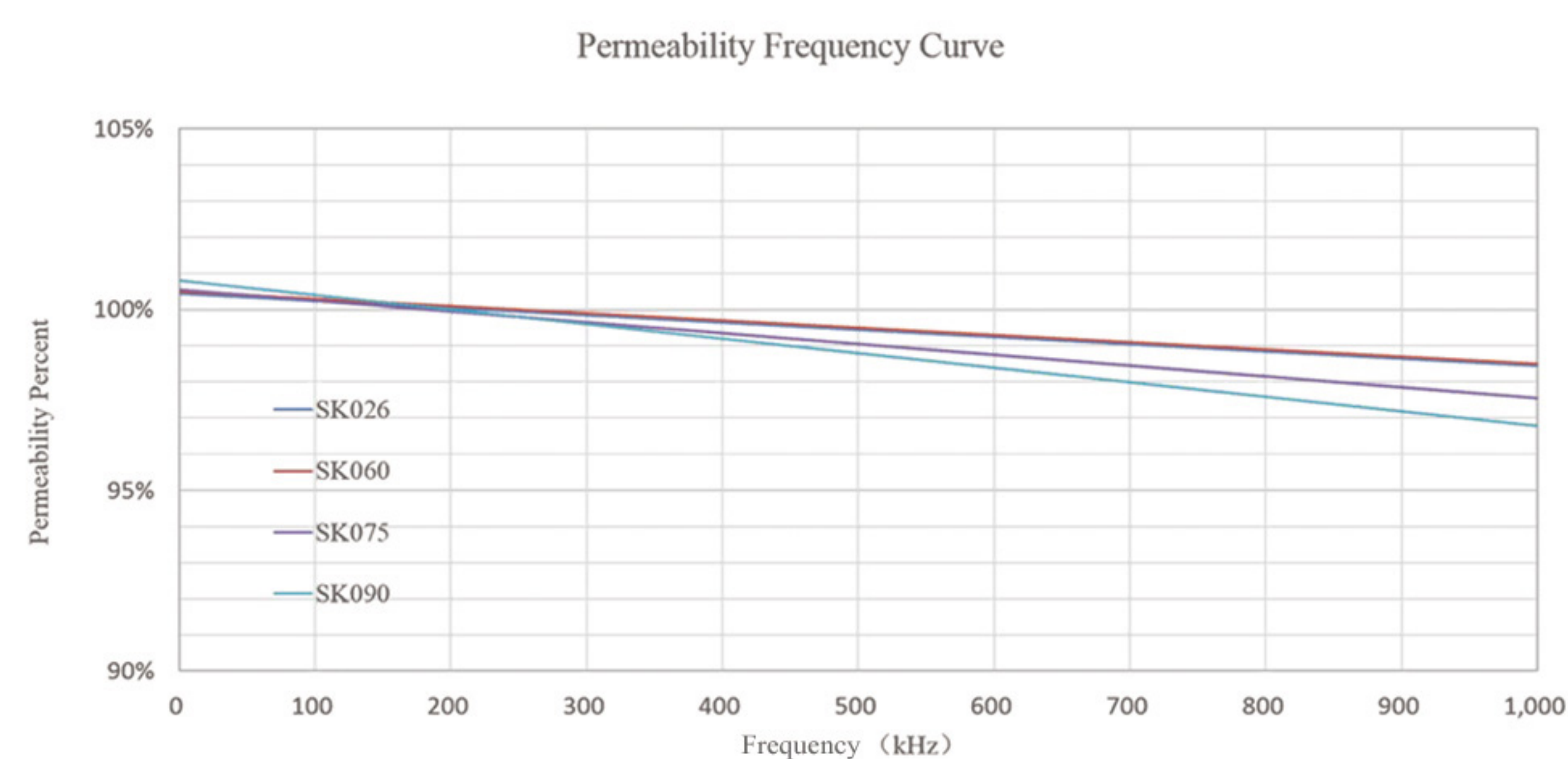


铁硅60μ-90μ 磁心损耗曲线 Core Loss Properties Curve of FeSi 60μ-90μ

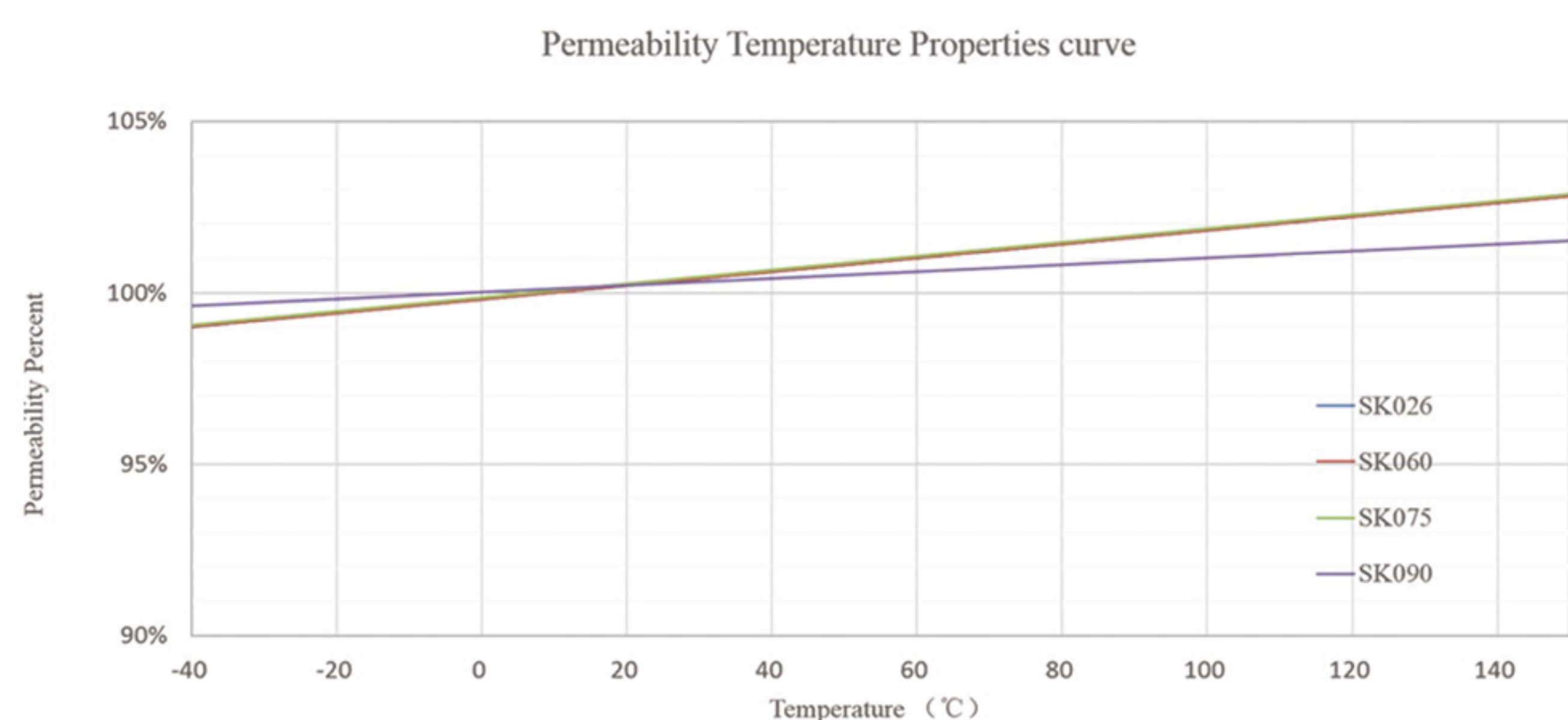


铁硅26μ磁心损耗曲线 Core Loss Properties Curve of FeSi 26μ

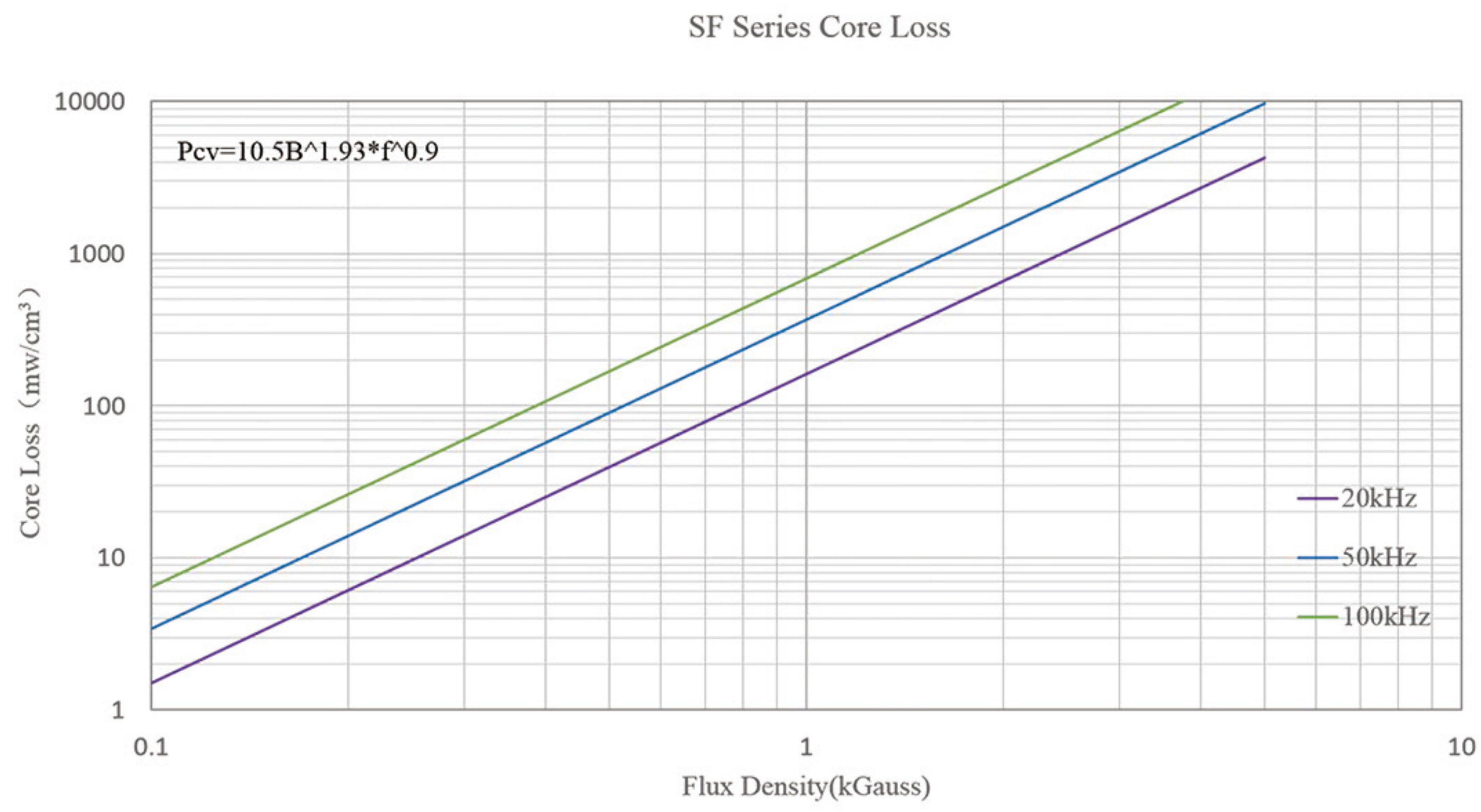
铁硅频率特性曲线 FeSi Frequency Properties Curve



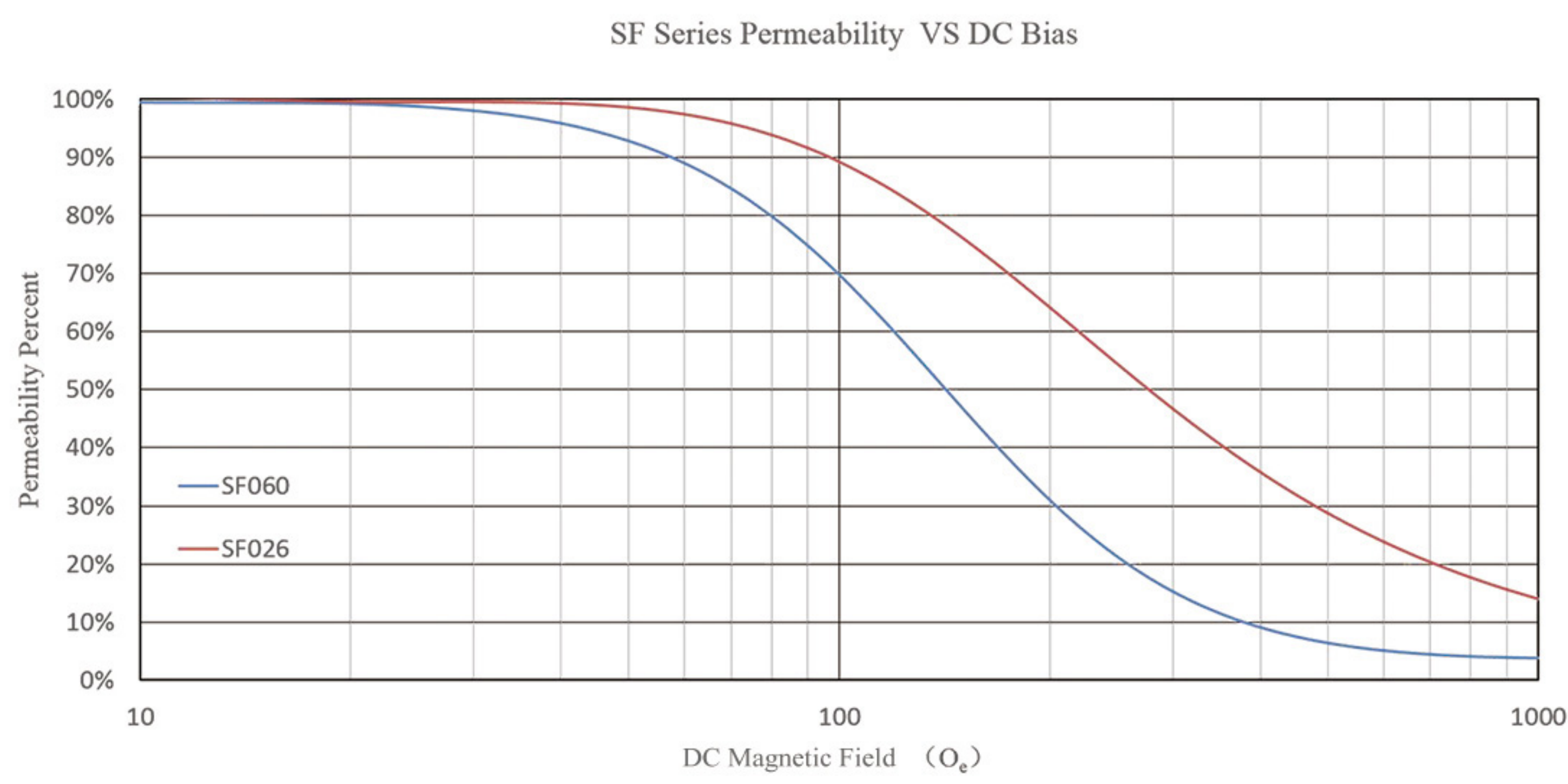
铁硅温度特性曲线 Temperature Properties Curve of FeSi



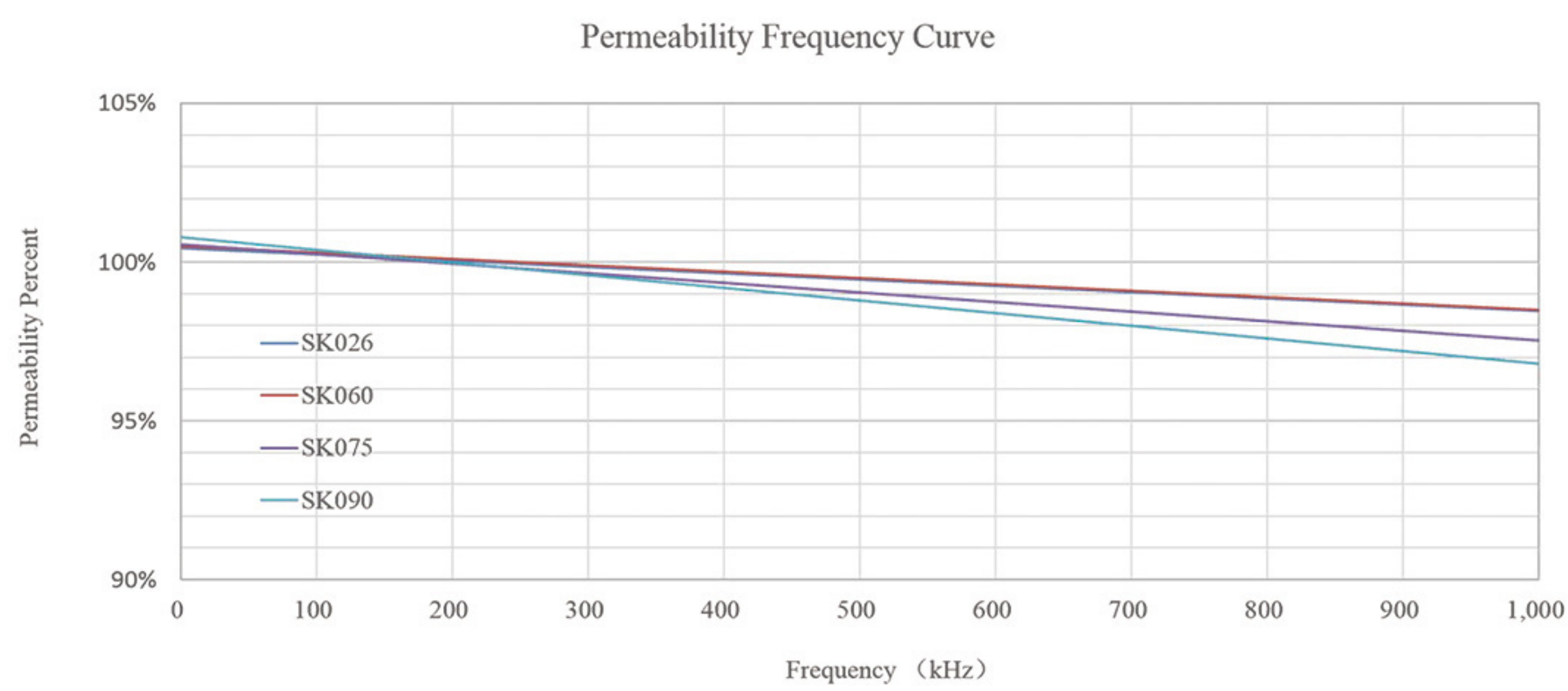
铁硅二代 | The second generation FeSi - SF Series



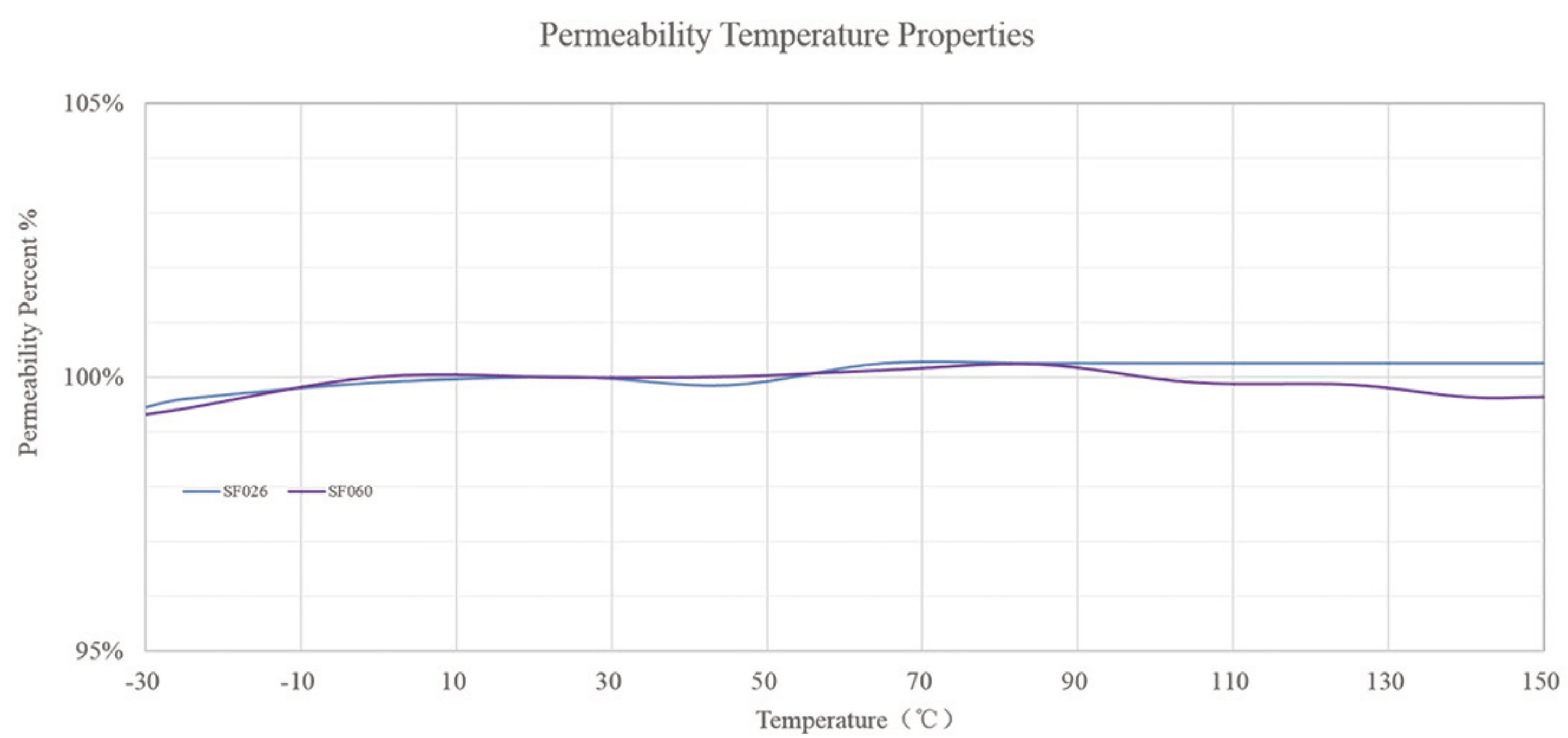
SF系列损耗特性曲线
SF Series Core Loss Properties Curve



SF系列直流叠加特性曲线
SF Series DC Bias Properties Curve



SF系列磁导率频率特性曲线
SF Series Frequency Properties Curve



SF系列磁导率温度特性曲线
SF Series Permeability Temperature Properties Curve