

铁硅铝合金 DSF 026 材料特性

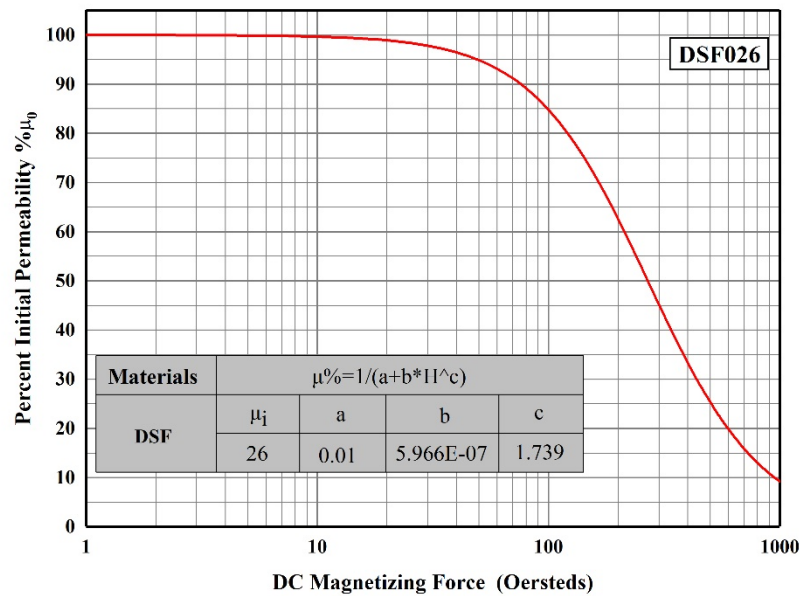
High Frequency Sendust DSF026 Material Characteristics

特性 SYMBOL	测试条件 CONDITIONS		特征值 VALUE
磁导率 μ Initial Permeability	200 kHz, 0.05 V	25 °C	26
饱和磁感应强度 B_s (mT) Saturation magnetic flux Density	50 Hz, >50000 A/m	25 °C	950
功耗(mW/cm ³) Core loss	50 kHz, 100 mT	25 °C	180
		100°C	260
居里温度 T_c (°C) Curie Temperature	10kHz, B<0.25mT		500
密度 d (g/cm ³) Density		25°C	5.8
工作温度 T (°C) Temperature Range			-55~200
导热系数 W/(m·K) Thermal Conductivity Coefficient		25°C	5.56
弯曲强度 (MPa) Tensile Strength		22°C, 48%RH	52.4
压溃强度 (MPa) Compressive Strength		22°C, 48%RH	133
杨氏模量 (GPa) Young's modulus		22°C, 48%RH	71.2
维氏硬度 (HV0.1) Vickers Hardness		22°C, 48%RH	225
磁致伸缩系数 (ppm) Magnetostrictive Coefficient		25°C	0.6

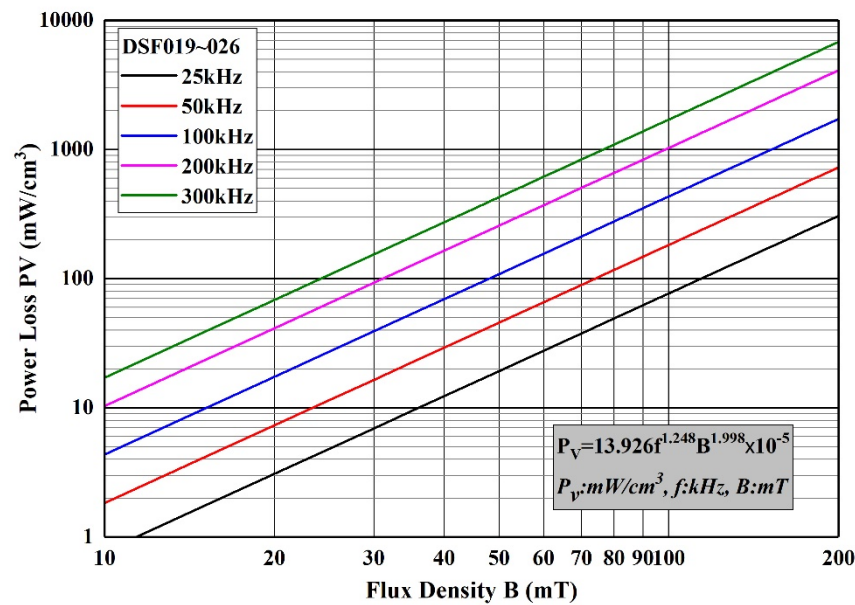
以上数据是根据标准样环 $\phi 26.9 \times \phi 14.7 \times 11.2$ 获得的典型数据，有关产品的具体性能会在此基础上有所调整。

The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis.

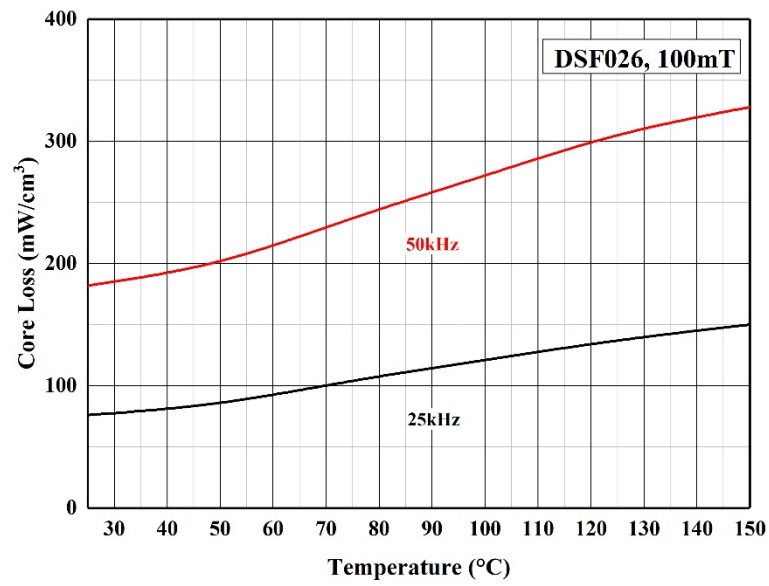
* 磁导率-直流叠加曲线 Permeability vs DC Bias Curve



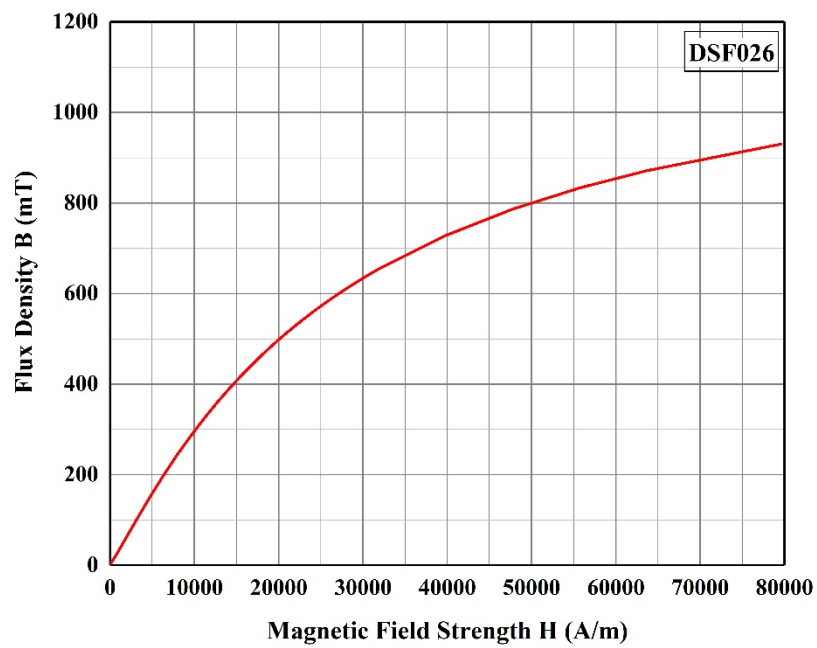
* 损耗-频率曲线 Core Loss vs Frequency Curve



* 损耗-温度曲线 Core Loss vs Temperatures Curves.



* 标准磁化曲线 Normal Magnetization Curve



* 磁导率-频率关系曲线 Permeability vs Frequency Curv

