

DNH 090 材料特性

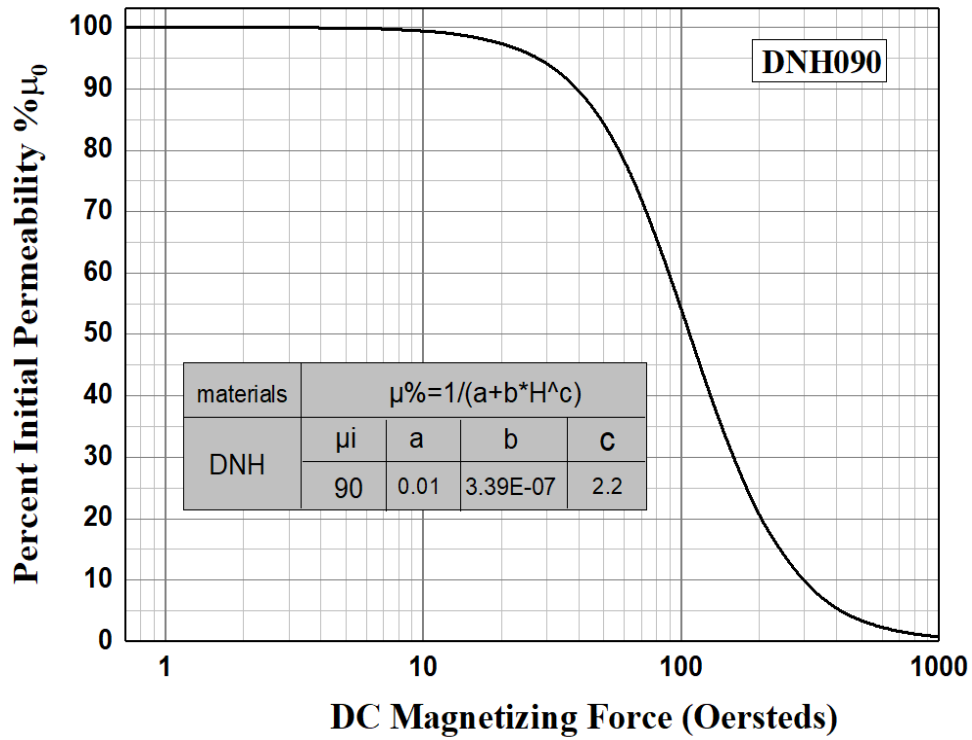
DNH 090 Material Characteristics

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	90
饱和磁感应强度 B_s (mT) Saturation magnetic flux Density	50 Hz, >40000 A/m	25 °C	1400
功耗(mW/cm ³) Core loss	50 kHz, 100 mT	25 °C	210
		100 °C	200
Q 值	200 kHz, 0.05 V	25 °C	45
居里温度 T_c (°C) Curie Temperature	10kHz, $B < 0.25$ mT		500
密度 d (g/cm ³) Density		25 °C	7.1
工作温度 T (°C) Temperature Range			-55~200
导热系数 $W/(m \cdot K)$ Thermal Conductivity Coefficient		25 °C	8
热扩散系数 (mm ² /S) Thermal Diffusion Coefficient		22 °C, 52%RH	1.8
弯曲强度 (MPa) Tensile Strength		22 °C, 48%RH	28
压溃强度 (MPa) Compressive Strength		22 °C, 48%RH	100
杨氏模量 (GPa) Young's modulus		22 °C, 48%RH	70
维氏硬度 (HV0.1) Vickers Hardness		22 °C, 48%RH	80
磁滞伸缩系数 (ppm) Magnetostrictive Coefficient		25 °C	8

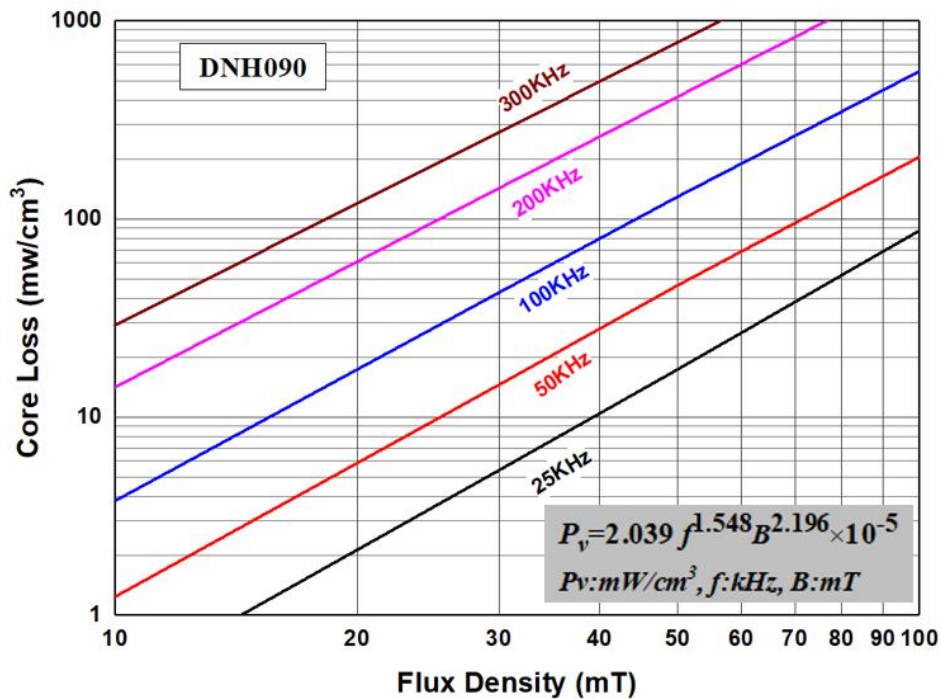
以上数据是根据标准样环 $\phi 26.9 \times \phi 14.7 \times 11.2$ 获得的典型数据, 有关产品的具体性能会在此基础上有所调整。

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

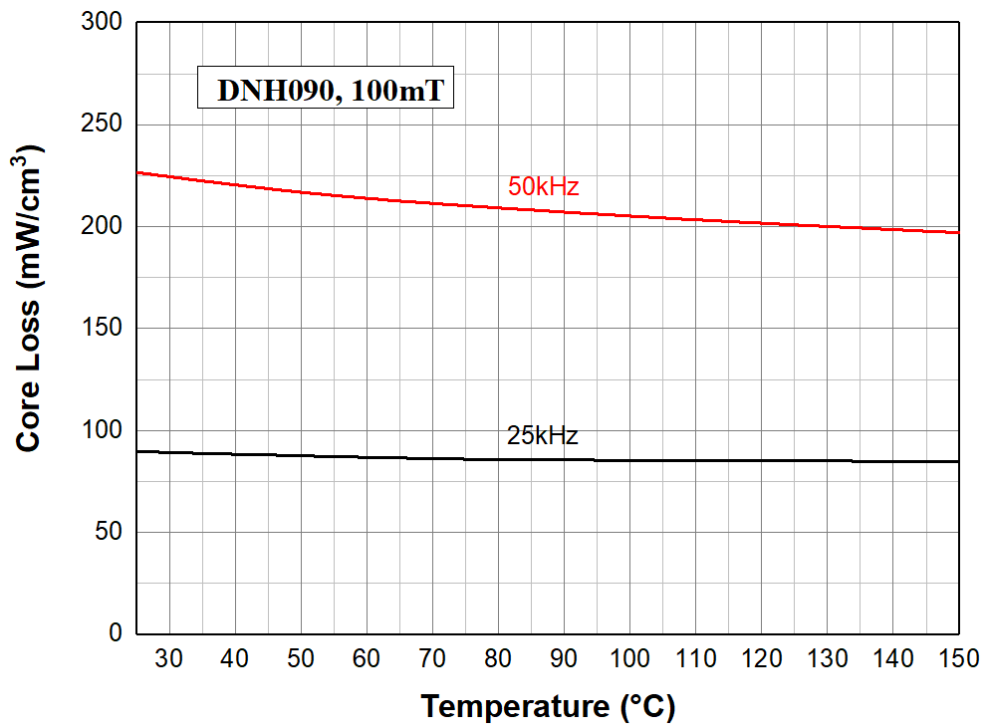
* 磁导率-直流叠加曲线 Permeability vs DC Bias Curve



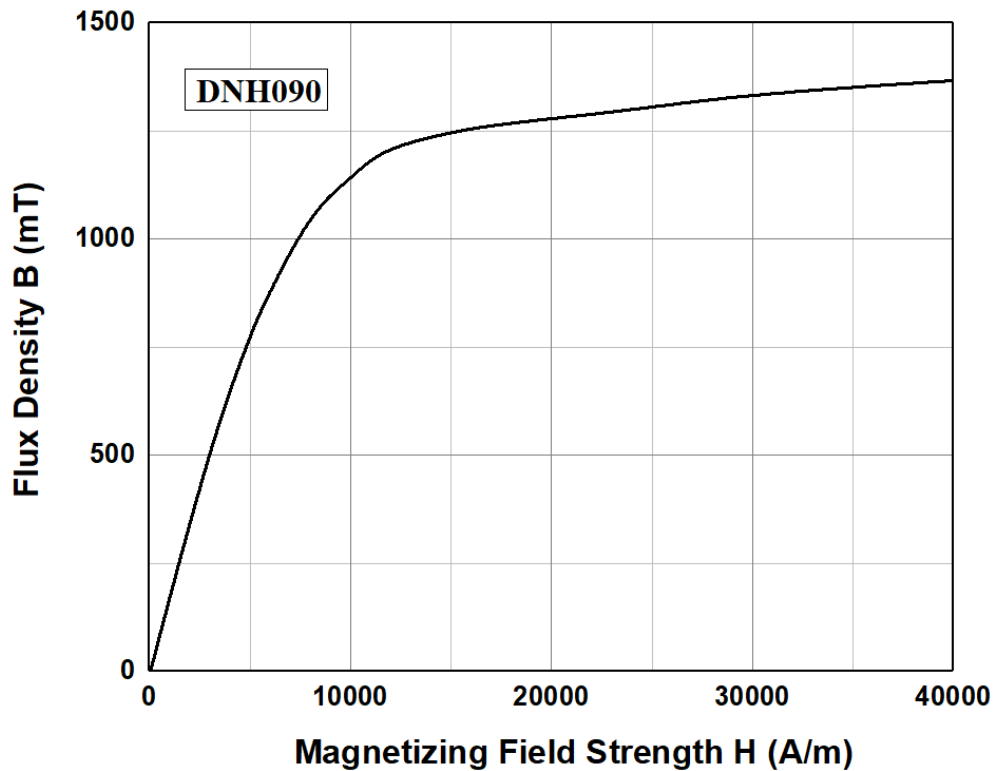
* 损耗-频率曲线 Core Loss vs Frequency Curves



* 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 Curve

