



高磁通铁镍磁粉芯（DH系列）·

高磁通铁镍磁粉芯Hi-Flux是由50%Ni，50%Fe粉构成，是一种新型合金材料，与铁粉芯相比，它具有不老化，功率损耗低的优点。与铁硅铝相比，它具有更优的直流叠加特性。由于粉末中含有50%左右的镍，价格较高。

High-Flux magnetic iron-nickel core ·

Hi-Flux core is a kind of new alloy material which made from 50%Ni,50%Fe. Compare to iron powder, it has the advantage of no thermal aging and low core loss. Compare to Sendust powder core, it has better DC bias. Hi-Flux is high cost due to its content of 50%Ni

Hi-Flux 材料特性 ·

饱和磁通密度大于15000Gs

优良的直流叠加特性

功率损耗低于铁粉芯

可以在200℃高温下使用不存在失效问题

成本高，在很多领域可替代铁粉芯/铁硅铝/铁硅磁粉芯

Hi-Flux Powder Core Material Characteristics ·

Bs is up to 15000Gs

Excellent DC Bias

Core loss is lower than iron powder core

Not subject to thermal aging and can work up to 200℃

High cost and it can replace Iron powder/Sendust/DF core in many applications.



Hi-Flux材料典型特性 · Hi-Flux MATERIAL TYPICAL CHARACTERISTICS

特性 Characteristics	单位 Unit	参数 Parameter
初始磁导率 Initial Permeability	—	26~60
饱和磁通密度Bs Saturation Magnetic Flux Density	(Gs)	15000
居里温度 Curie Temperature	(℃)	>400
温度系数 (-40℃~125℃) Temperature Coefficient	$10^{-6}/^{\circ}\text{C}$	400
密度 Density	(g/cm ³)	5.6
温度范围 Temperature Range	℃	-40~200

高磁通铁镍磁粉芯主要用途 ·

开关电源 (SMPS) 中输出电感器
高Q滤波器
谐振电感
单端反激变压器
精密电路中

High-Flux magnetic iron-nickel core Application ·

SMPS output inductor
High Q filter
Resonance Inductor
Flyback Transformer
Precision circuit

