

材料特点与应用

Material Characteristics and Applications

NS铁硅铝磁粉心 NS FeSiAl powder core

特点:

破碎法铁硅铝合金粉末
饱和磁通密度10000Gs
良好的直流叠加特性
良好的储能能力
低功率损耗

主要应用:

PFC电感
串联噪音滤波器。
单端反激变压器
开关电源稳压电感

Characteristics:

Crushed FeSiAl alloy powder
Bs is 10000Gs
Good DC Bias
Good energy storage capacity
Low power loss

Major Applications:

PFC Inductors
In-line noise Filter
Pulse and Fly back Transforms
Switching regulator Inductors

NH铁镍磁粉心 NH FeNi powder core

特点:

由铁镍合金粉末组成
饱和磁通密度可以达到15000Gs
最好的直流叠加特性
最高储能能力
更低的功率损耗

主要应用:

串联噪音滤波电感器
单端反激变压器
开关式校准电感
高端功率因数校正器

Characteristics:

Consists of Fe-Ni powder
Bs is up to 15000Gs
The best DC Bias
The best energy storage capacity
Lower core loss

Major Applications:

In-line noise filter
Pulse and Fly back Transforms
Switching regulator inductor
High-end PFC inductor

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NK铁硅磁粉心 NK FeSi powder core

特点:

由铁硅合金粉末组成
 饱和磁通密度可以达到15000Gs
 很好的直流叠加特性
 更高储能能力
 功率损耗低于铁粉心

主要应用:

有源电力滤波器
 大功率电源升降压电感器
 电动车逆变平滑扼流圈
 风力发电
 混合动力汽车

Characteristics:

Consists of Fe-Si powder
 Bs is up to 15000Gs
 Excellent DC Bias
 Better energy storage capacity
 Core loss less than Iron Powder Core

Major Applications:

APFC Inductors
 Buck/Boost inductors for high power supply system
 Smoothing chokes of invertors for electric vehicles
 Wind Energy System
 Hybrid Electric Vehicle

NKS高磁通铁硅铝磁粉心 NKS high flux silicon aluminum iron alloy powder core

特点:

气雾化铁硅铝合金粉末
 饱和磁通密度可达13000Gs
 直流叠加特性好于NS类
 储能能力好于NS类
 功率损耗与NS相当

主要应用:

PFC电感
 串联噪音滤波器。
 单端反激变压器
 开关电源稳压电感
 谐振电感

Characteristics:

Gas atomized silicon aluminum iron alloy powder
 Bs is up to 13000Gs
 DC Bias better than NS series
 Energy Storage better than NS series
 Core Loss similar to NS series

Major Applications:

PFC Inductors
 In-line noise Filter
 Pulse and Fly back Transforms
 Switching regulator Inductors
 Resonant Inductors

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NSW 高磁通低损耗铁硅铝磁粉心

NSW high flux low loss silicon aluminum iron alloy powder core

特点:

雾化铁硅铝粉末
 饱和磁通密度10000Gs, 优于铁镍钼
 直流叠加特性优于铁镍钼, 略低于NKS
 较高的应用频率
 超低的功率损耗, 甚至低于铁镍钼磁粉心

主要应用:

谐振电感
 高频反激变压器
 高频PFC电感
 高频EMI滤波电抗器

Characteristics:

Gas atomized silicon aluminum iron alloy powder
 Bs is 10000Gs, better than MPP
 DC Bias better than MPP, slightly lower than NKS
 higher application frequency
 Ultra-low core loss, even less than MPP

Major Applications:

Resonant inductor
 High frequency Fly-back Transforms
 High frequency PFC inductor
 High frequency EMI filter reactor

NSWL高频铁硅铝磁粉心

NSWL high frequency silicon aluminum iron powder core

特点:

雾化铁硅铝粉末
 饱和磁通密度10000Gs
 比NSW更低的功率损耗
 比NSW更高的应用频率
 与NSW的直流叠加特性相当

主要应用:

谐振电感
 高频反激变压器
 高频PFC电感
 高频EMI滤波电抗器

Characteristics:

Gas atomized silicon aluminum iron alloy powder
 Bs is 10000Gs
 Better core loss than NSW
 Higher application frequency than NSW
 DC bias Equivalent to NSW

Major Applications:

Resonant inductor
 High frequency Fly-back Transforms
 High frequency PFC inductor
 High frequency EMI filter reactor

材料特点与应用

Material Characteristics and Applications

NSH复合磁粉心 NSH compound powder core

特点:

含有铁镍和铁硅铝合金粉末
饱和磁通密度约为12000Gs
直流叠加特性与NKS接近
功率损耗与NSW接近

主要应用:

服务器及PC机用高效能PFC电感

Characteristics:

Consists of FeNi and FeSiAl alloy powder
Bs is around 12000Gs
DC Bias equivalent to NKS
Core loss equivalent to NSW

Major Applications:

high energy efficiency PFC for sever & computer

NHU铁镍超磁通磁粉心 NHU ultra flux powder core

特点:

由铁镍合金粉末组成
饱和磁通密度可以达到15000Gs
最好的直流叠加特性
功率损耗低于铁镍磁粉心

主要应用:

高效率电动汽车OBC PFC电感
高效率通讯电源PFC电感
高效率服务器电源PFC电感

Characteristics:

Consists of FeNi alloy powder
Bs is up to 15000Gs
The best DC Bias
Core loss less than high flux Powder Core

Major Applications:

high energy efficiency PFC for OBC of new energy vehicles
high energy efficiency PFC of power supply for communication
high energy efficiency PFC of power supply for sever

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NHS复合磁粉心 NHS compound powder core

特点:

含有铁镍和铁硅铝合金粉末
饱和磁通密度约为14000Gs
直流叠加特性与铁镍接近
功率损耗比铁镍更低

主要应用:

大功率高效能服务器用PFC电感

Characteristics:

Consists of FeNi and FeSiAl alloy powder
Bs is around 14000Gs
DC Bias approach to high flux
Lower core loss than high flux

Major Applications:

high energy efficiency PFC for larger power sever

NKH复合磁粉心 NKH compound powder core

特点:

含有铁镍和铁硅合金粉末
饱和磁通密度为15000Gs
直流叠加特性优于铁硅
功率损耗比铁硅低

主要应用:

UPS电源
储能系统

Characteristics:

Consists of FeNi & FeSi alloy powder
Bs is up to 15000Gs
DC Bias better than FeSi
Core loss lower than FeSi

Major Applications:

UPS power supply
ESS energy storage system

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NHK复合磁粉心 NHK compound powder core

特点:

含有铁镍和铁硅合金粉末
饱和磁通密度为15000Gs
直流叠加特性与铁镍接近
功率损耗比NKH更低

主要应用:

UPS电源
储能系统

Characteristics:

Consists of FeNi & FeSi alloy powder
Bs is up to 15000Gs
DC Bias approach to high flux
Lower core loss than NKH

Major Applications:

UPS power supply
ESS energy storage system