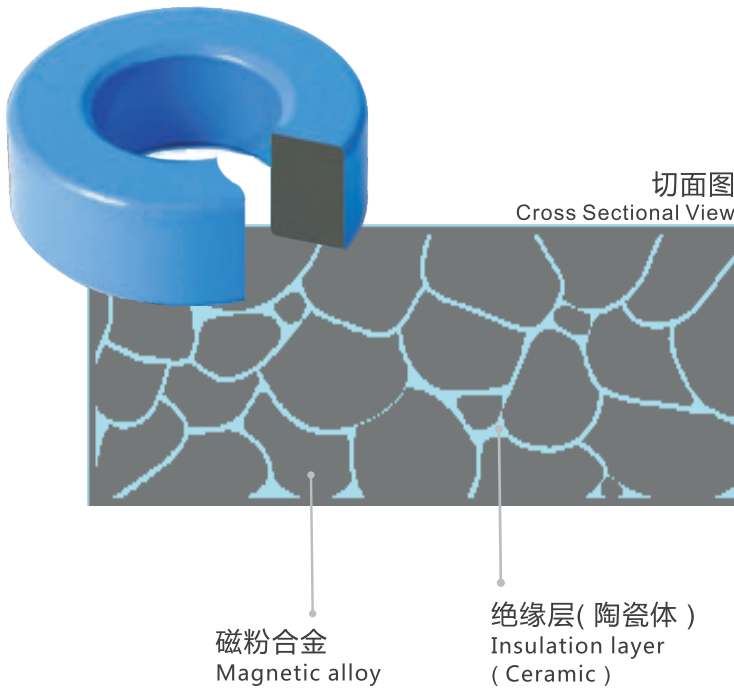


- 分布式气隙 Distributed air gap
- ▶ 线圈涡流损耗可忽略不计 Ignore coil Eddy-current loss



### 主要材料

#### Main Materials

NPH CORE : Fe-Si alloy  
NPF CORE : Fe-Si alloy  
NPS CORE : Fe-Si-Al alloy  
PPI CORE : Fe-Si alloy

### 形状

#### Shapes

Toroids : 0.5 inch to 5.0 inch  
Special : Block, Cylinder, U, EE, EQ

### 磁导率

#### Permeability

NPH : 26, 60 $\mu$   
NPF : 26, 40, 60, 75, 90 $\mu$   
NPS : 26, 60, 75, 90, 125 $\mu$   
PPI : 40 $\mu$

### 涂层

#### Coating

Color - NPH /NPF: Blue  
- NPS : Black  
- PPI : Green

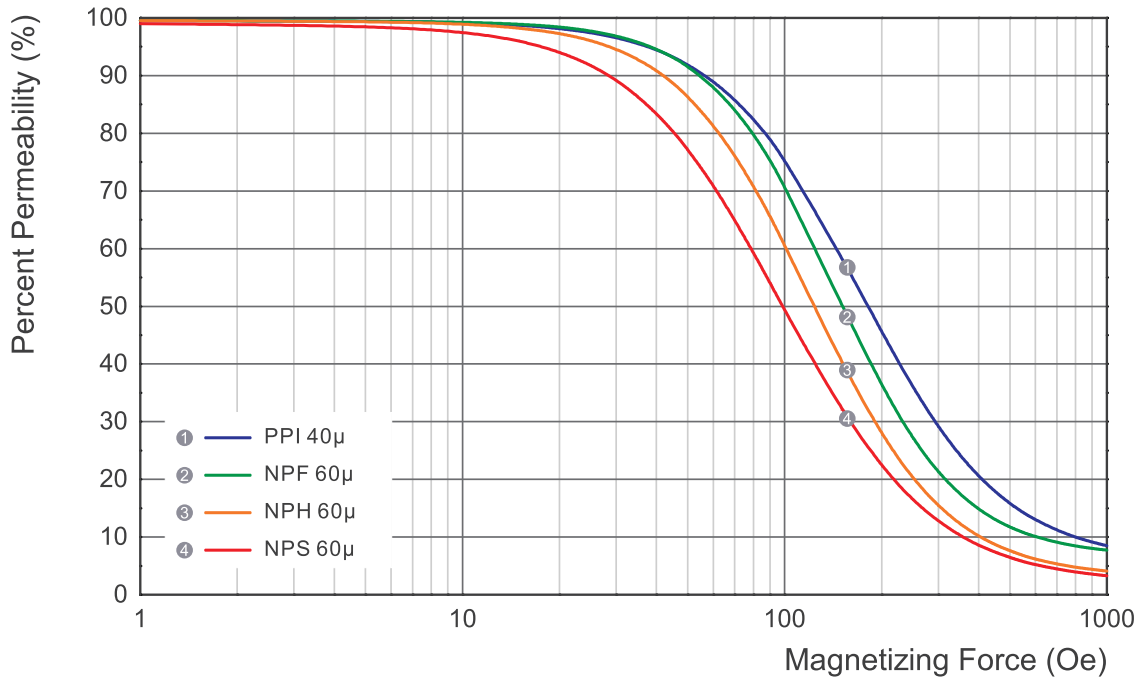
Breakdown Voltage  
800V / 5mA / 3s (min.)

- 完全无机物粘合 Inorganic binder
- ▶ 无热老化现象 No thermal aging effect

## ● 磁芯材料的比较 Powder core materials comparison

Materials		Permeability ( $\mu$ )	Bs (Gauss)	Core Loss	DC Bias	Relative Cost	Temperature Stabilization	Curie Temperature (°C)
POCO	Equal							
NPH	Amorphous	26,60	12,000	Low	Better	Medium	Better	600
NPF	Fe6.5Si	26-90	15,000	Medium	Best	Low	Better	700
NPS	Sendust	26-125	10,000	Low	Good	Lower	Good	500
PPI	Iron	40	13,000	Medium	Good	Lowest	Good	700
High Flux		14-160	1,500	Low	Best	Highest	Better	500
Silicon Steel 0.1mm (Gapped)		-	18,000	High	Best	Lowest	Good	740
Amorphous C Core (Gapped)		-	15,000	Low	Better	Higher	Good	600
Ferrite (Gapped)		-	4,500	Lowest	Poor	Lowest	Poor	100-300

DC Bias Curves



Core Loss (at 50kHz)

