

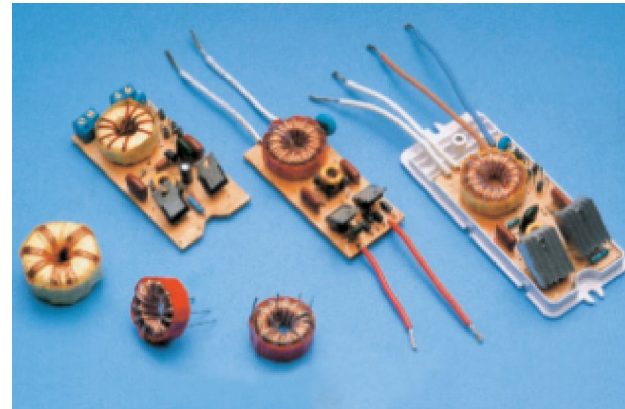


灯饰电子变压器铁芯

Lamp-decoration electronic transformer iron core

铁芯的性能特点:

灯饰电子变压器目前市面上基本采用软磁铁氧体制作, 国内的材料一致性差, 大多数从国外采购, 价格高, 而且体积大, 温升高等问题, 今我们采用纳米晶铁芯经过特殊退火工艺所制成的铁芯, 应用在电子变压器内, 体积大大缩小, 各方面性能指标都优于铁氧体, 是电子变压器厂家首选换代产品。



The performance characteristics:

Lamp-decoration electronic transformer is basically made by soft magnetic ferrite on the market at present, the consistency of domestic material is poor, it is mainly purchased from foreign countries, the price is high, and it has problems of big volume and temperature rising etc. Today we use nano-microlite iron core to make the iron core through special annealing process, and is applied in electronic transformer, the volume reduces greatly, each performance index is better than ferrite, and it is the first choice for the regeneration product of electronic transformer factories.

灯饰电子变压器铁芯 (举例)

Iron core for lamp-decoration electronic transformer (for example)

材质 Material	规格 ID/OD×H	适用功率P Applicable power (P)	范围 Scope
		(15-50KHz)	
HX-NC	φ14/19×6.5	60W	电子变压器 Electronic transformer
HX-NC	φ15.5/21.5×9	80W	电子变压器 Electronic transformer
HX-NC	φ15/23×6.5	105W	电子变压器 Electronic transformer
HX-NC	φ19/26×10	150W	电子变压器 Electronic transformer
HX-NC	φ16/26×10	210W	电子变压器 Electronic transformer
HX-NC	φ20/33×10	300W	电子变压器 Electronic transformer
HX-NC	φ34/43×15	500W	电子变压器 Electronic transformer

电磁性能:

Electromagnetism performance:

材质 Material	初始磁导率 u _i (Gs/Oe)	矫顽力 H _c (A/m)	居里温度 T _c (°C)	饱和磁感 B _s (T)	铁芯损耗 P (w/kg) 20K/0.5T	铁芯损耗 P (w/kg) 50K/0.3T
	Initial permeability u _i (Gs/Oe)	Coercive force H _c (A/m)	Curie temperature T _c (°C)	Saturated magnetic induction B _s (T)	Iron core loss P(w/kg) 20k/0.5T	Iron core loss P(w/kg) 50k/0.3T
HX-NC	8×10 ⁴	1.0	570	1.25	<20	<30

大功率中、高频变压器铁芯

High-power mid, high frequency transformer iron core

性能特点:

具有高的饱和磁感应强度、高的居里温度、较低的铁损、矫顽力和缩小变压器的体积等优点; 有比其它软磁材料更优越的一面, 是做变压器的理想材质。非晶材料最佳应用频率在15 KHz以内, 纳米晶材料最佳应用频率在15-50KHz以内。

The performance characteristics:

It has advantages of high saturated magnetic induction density, high Currier temperature, low iron loss and coercive force, and reducing volume of transformer etc; it has something better than other soft magnetic material, and is the ideal material for transformers. The best application frequency of amorphous microlite material is within 15KHz, and the best application frequency of nano-microlite material is in the scope of 15-50KHz.

用途:

高频开关电源变压器, 高、中频大功率变压器、脉冲变压器、电子变压器、逆变式电焊机变压器及配电变压器等。

Purpose:

High-frequency switching power supply transformer, high and mid frequency high-power transformer, pulse transformer, electronic transformer, inverter welding machine transformer and distribution transformer etc.



铁芯的材质及物理特能:

The material and physical property of iron core:

材质 Material	电阻率 Ω μ . cm Resistivity Ω μ . cm	居里温度 T _c (°C) Curie temperature T _c (°C)	晶化温度 T _x (°C) Crystallization temperature T _x (°C)	饱和磁感 B _s (T) Saturated magnetic induction B _s (T)	占空系数 (%) Occupation efficiency (%)	矫顽力 H _c (A/m) Coercive force H _c (A/m)
HX-NC	130	570	510	1.25	~78	1.6
HX-AM1	130	410	470	1.56	~78	4.0

非晶、纳米晶材质的电气参数:

The electric parameters of amorphous microlite and nano-microlite material:

牌号 Model	饱和磁感 B _s (T) Saturated magnetic induction B _s (T)	饱和磁致伸缩系数 λ _s Saturated magnetostrictive coefficient λ _s	铁芯损耗 P (w/kg) Iron core loss P(w/kg)
HX-NC	>1.25	2.7×10 ⁻⁶	10K/0.5T <10
			20K/0.5T <20
			50K/0.3T <30
HX-AM1	>1.56	27×10 ⁻⁶	50Hz/1.4T <0.25
			400Hz/1.2T <1.5
			10K/0.4T <25