



大功率中、高频变压器铁芯

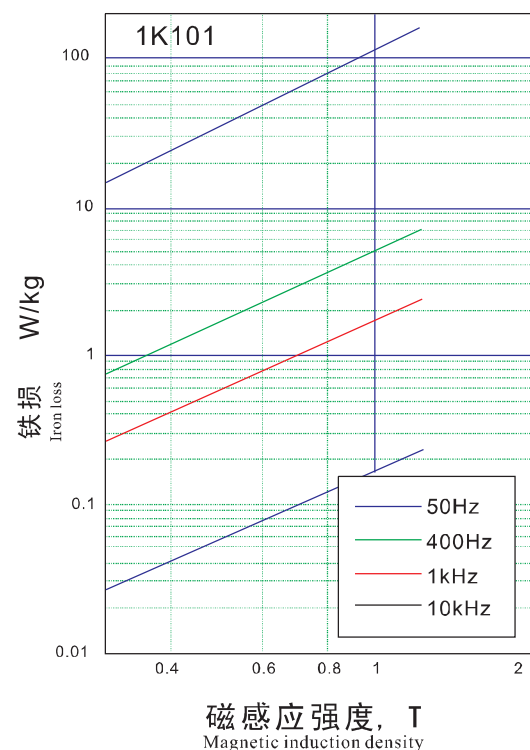
High-power mid, high frequency transformer iron core

铁芯规格与输出功率对照表:

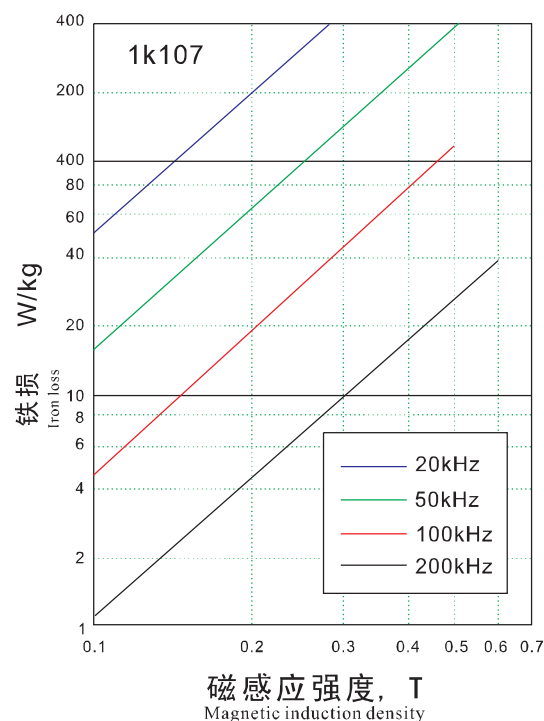
The comparison table of iron core specifications and output power:

型号 Part NO	规格 ID/OD×H	平均磁路长度 L (cm) Average magnetic circuit length L (cm)	有效截面积 Se (cm ²) Available section coverage Sc (cm ²)	重量 W (g) Weight W (g)	适用功率 20KHz (kw) Applicable power 20 KHz (kw)
HX系列 HX series	φ40/60×20	15.75	1.45	160	0.5~0.8
HX系列 HX series	φ50/70×25	18.84	1.87	257	0.8~1.0
HX系列 HX series	φ51/70×30	18.99	2.13	296	1.2~1.5
HX系列 HX series	φ50/90×30	21.99	4.50	720	2.0~3.5
HX系列 HX series	φ50/100×35	23.56	6.56	1128	4.0~5.0
HX系列 HX series	φ80/125×30	32.18	5.06	1188	5.0~5.5
HX系列 HX series	φ90/130×30	34.55	4.50	1135	5.0~8.0
HX系列 HX series	φ65/140×35	32.18	9.85	2314	10~15
HX系列 HX series	φ135/210×35	54.16	9.84	3894	15~20

△ 其它规格可根据客户要求订做设计
Other specifications may be ordered according to requirements of clients



铁基非晶无磁场退火损耗曲线
Fe-based amorphous microlite non-magnetic-field annealing loss curve



铁基纳米晶无磁场退火损耗曲线
Fe-based nano-microlite non-magnetic-field annealing loss curve

开关电源铁芯

Iron core for switching power supply

铁芯的性能特点:

开关电源铁芯采用铁基超微晶和钴基非晶制作; 通过不同的退火工艺, 使它具有高矩形比, 高磁导率等特性。广泛应用于电脑ATX开关电源, 我们采用φ8/12×4.5mm、φ8/12×3mm铁芯制作高频小功率磁放大器。



The performance characteristics:

The switching power supply iron core is made by Fe-based ultrafine microlite and cobalt-based amorphous microlite; through different annealing technics, it has characteristics of high squareness ratio and high permeability etc. It is broadly used in computer ATX switching power supply, and we adopts 8/12 × 4.5mm, 8/12 × 3mm iron core to make high-frequency small-power magnetic amplifier.

用途:

用于开关电源、直流变压器、逆变电源及不间断电源用功率变压器、控制变压器、磁放大器等。

Purpose:

It is used for switching power supply, DC transformer, power transformer for inverter power supply and uninterrupted power supply, control transformer, and magnetic amplifier etc.

铁芯的电磁特性:

The electromagnetism characteristics of iron cores:

牌号 Model	极大磁导率 Um Maximum permeability Um	矫顽力Hc (A/m) Coercive force Hc(A/m)	矩形比Br/Bs Squareness ratio Br/Bs	饱和磁感 Bs (T) Saturated magnetic induction Bs(T)
		f=50~120k方波 f=50~120 k square wave		
HX-NC	>250,000	<24	>90%	>1.25
HX-AM3	>350,000	<22	>95%	>0.6

牌号 Model	材质 Material	饱和磁致伸缩系数λs Saturated magnetostrictive coefficient λs	密度 ρ (g/cm ³) Density ρ (g/cm ³)	占空系数 (%) Occupation efficiency (%)
HX-NC	FeCuNbSiB	2.7×10 ⁻⁶	7.25	~78
HX-AM3	CoNiFeSiB	~0	7.8	~78