



ISDN (综合数字业务网) 铁芯

ISDN (Integrated Service Digital Network) iron core

性能特点:

综合业务数字网络 (ISDN) 用环形铁芯, 是采用具有高导磁率, 良好的频率响应和优良的抗直流偏磁能力的非晶、纳米晶软磁材料制成。具有体积小、损耗低等优点。

Performance characteristics:

Ring-type iron core for Integrated Service Digital Network (ISDN) is made by amorphous microlite nano-microlite soft magnetic material which has high permeability, good frequency response and excellent anti-DC-magnetic-biasing capability. It has advantages of small volume and low loss etc.



铁芯的规格型号:

The specifications and types of iron cores:

牌号 Model	尺寸 ID/OD×H	AL (uH)		频率f DC×N (安匝数) Frequency f DC × N (AT)
		不带IDC偏流 Bias flow without IDC	带IDC偏流 Bias flow with IDC	
HX-AM3	φ 3/6×3	>20	>15	10KHz/50mA
HX-AM3	φ 6/10×4.5	>15	>10	20KHz/65mA
HX-AM3	φ 8/12×4.5	>20	>12	20KHz/145mA
HX-AM3	φ 6/10×3	>20	>10	20KHz/120mA
HX-NC	φ 8/12×4.5	>20	>6	20KHz/40mA

测试条件: 10KHz、50mA、1匝, 其它规格可根据用户要求订做。
Testing conditions: 10KHz, 50mA, 1 ramp, and other specifications may be ordered according to requirements of clients.

性能参数:

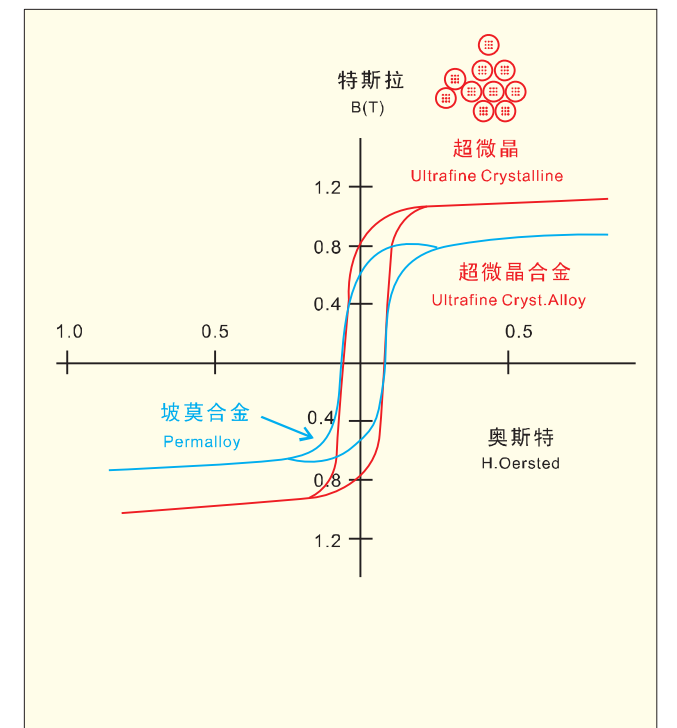
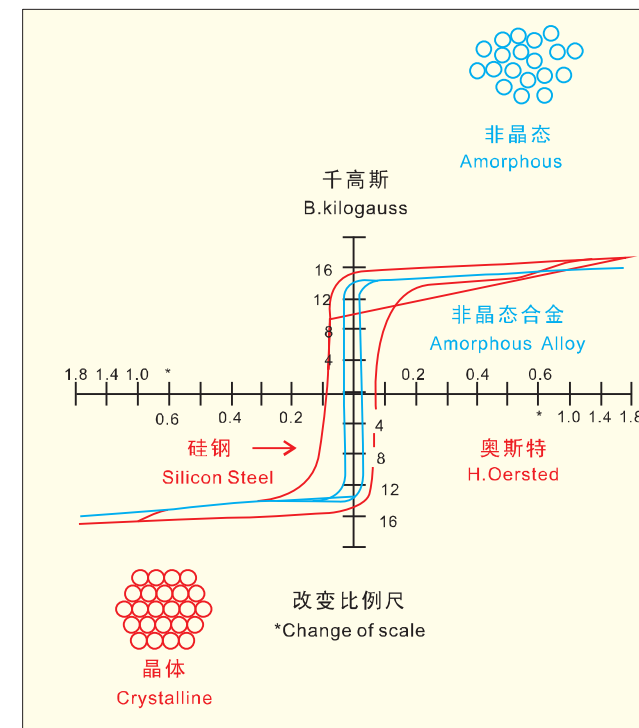
Performance parameters:

牌号 Model	初始磁导率10KHz u _i (Gs/Oe) Initial permeability u _i (Gs/Oe)	饱和磁感强度 B _s (T) Saturated induction density B _s (T)	矫顽力 H _c (A/m) Coercive force H _c (A/m)
HX-AM3	7×10 ⁴	0.55	2.20
HX-NC	5×10 ⁴	1.25	1.60

软磁材料电磁参数比较

Comparison of electromagnetism parameters of soft magnetic material

牌号 Model	B _s (T)	H _c (A/m)	u _i	P (w/kg)	主要用途 Main purpose
HX-NC	1.25	1.60	10×10 ⁴	20K/0.5T <20	精密互感受器、漏电开关、变压器、磁放大等电器元器件 Electric apparatuses of precision mutual inductor, electric leakage switch, transformer, and magnetic amplifier etc.
HX-Am1	1.56	4.0	0.5×10 ⁴	50Hz/1.4T <0.25	配电变压器、电感线圈 Distribution transformer, induction coil
HX-AM3	0.55	2.2	8×10 ⁴	100K/0.2T <95	磁放大、传感器、军工产品 Magnetic amplifier, sensor, and military product



金属磁功能材料的磁化特性

The magnetization characteristics of metal magnetic function material

左: 结晶态硅钢与铁基非晶态合金
Left: crystal silicon steel and Fe-based amorphous microlite alloy

右: 结晶坡莫合金与铁基超微晶合金
Right: crystal permalloy and Fe-based ultrafine microlite alloy