

产品技术标准

PRODUCT TECHNICAL STANDARDS

一 . 铁基纳米晶合金的物理性能

The physical property of Fe-based nano-microlite alloy

饱和磁感应强度 Bs(T) Saturated magnetic induction density	居里温度 Tc(°C) Curie temperature	晶化温度 Tx(°C) Crystallization temperature	密度 ρ (g/cm ³) Density	电阻率 $\Omega\mu\text{.cm}$ Resistivity	饱和磁致伸 缩系数 λ_s Saturated magnetostric tive oefficient	连续工作温度 (°C) Continuous- ly working temperature
1.25	570	510	7.25	130	2.7×10^{-6}	-50~150

二 . 铁基纳米晶合金的电磁性能 (无磁场退火)

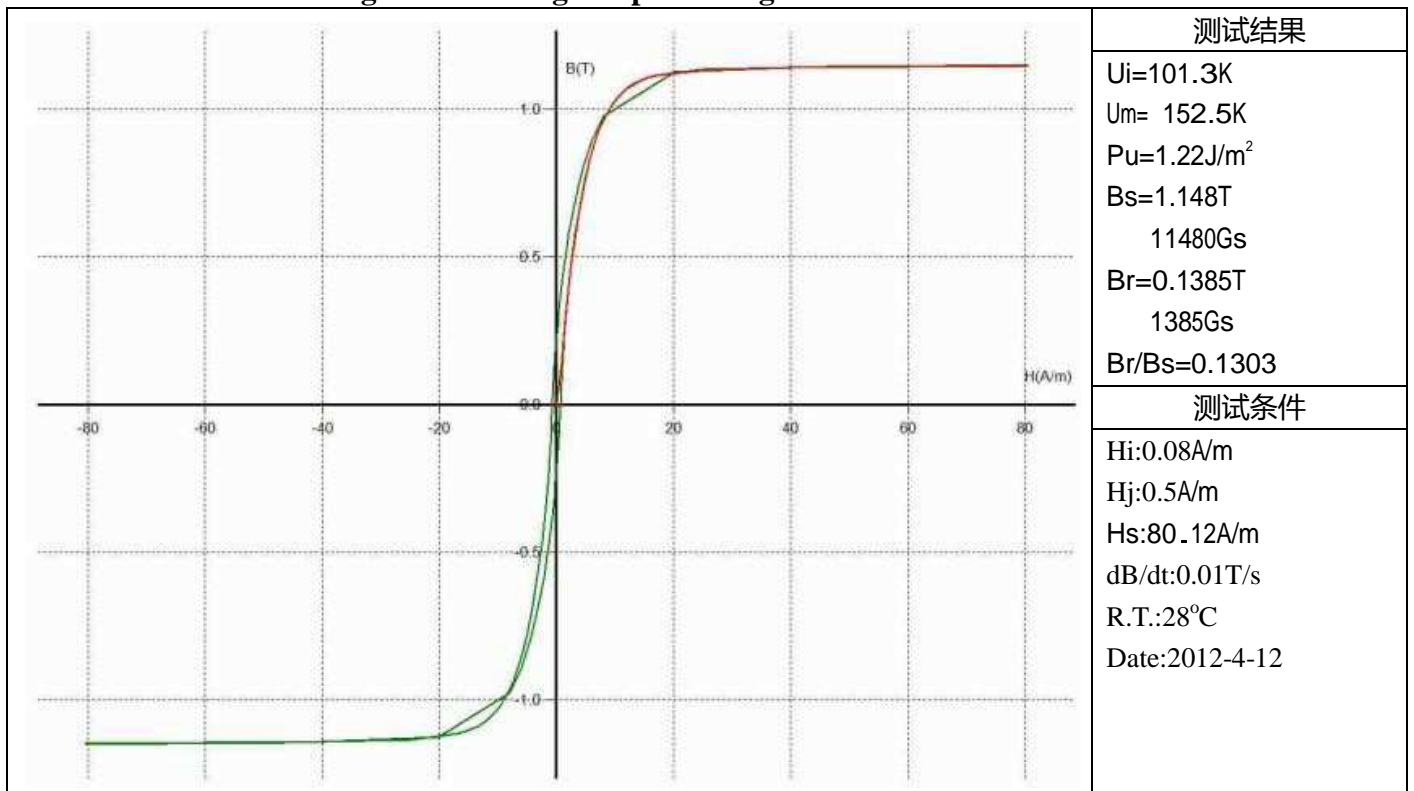
Fe-based nano-microlite alloy electromagnetism performance :(annealing without magnetic field)

初始磁导率 μ (Gs/Oe)	最大磁导率 μ_m (Gs/Oe) Maximum permeability	饱和磁感强度 Bs(T) Saturated induction density	剩余饱和磁场感应强度 Br(T) Residual saturatde magnetic inductance strength	矫顽力 Hc(A/m) Coercive force	铁芯损耗 P(w/kg) 16KHz/37mT Iron core loss
10×10^4	60×10^4	1.25	0.6~0.7	1.6	< 30

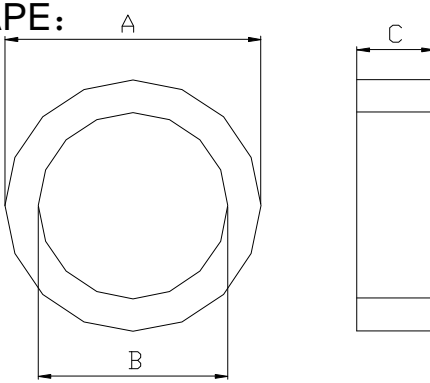
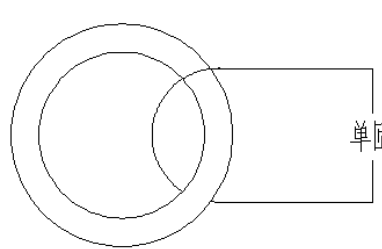
三 . B-H 磁化曲线 B-H magnetization curve

静态磁泄回线和基本磁化曲线

Static magnetic discharge loop and magnetization curve



SPECIFICATION

客户名 : Customer:				日期 : Date:	2016.06.06	
产品描述 : Description:	纳米晶磁芯 (环形) /Nano-microlite (Toroid)			材质牌号 : Material:	1k107B	
阿诺德料号 : ATL P/N:	40/25*15	护盒材质 Package material:	PBT	客户料号 : Customer P/N:		
1: 外型/SHAPE: 				铁芯尺寸 Dimension (mm)	完成品尺寸 Finished Dimension (mm)	
				A	40±0.5	44±0.5
				B	25±0.5	21.63±0.5
				C	15±0.3	18±0.5
有效截面积 Se Effective Cross Section Area	1.5cm ²	磁路长度 Lc Magnetic Path length	20.41cm	占空系数 Occupation Efficiency	0.8	
						
2:测试线路图/Test Pattern:(Single turn)						
3:电性描述/Electrical Description						
项 目/Item						
1	测试条件/ Test Condition: N1: N2=1:1 , 10KHZ, 0.3V, AL=25-40UH					
4 : 工艺描述: Process Description:						
No	简要说明/Brief Description					
1	Appearance	铁芯卷绕紧密, 焊点光滑平整, 无松动; 点胶牢固 Core will be wound tightly. Solder dot will be smooth and firm. Core will be firm after using glue.				
2	Weight	65±5g				
制作/Prepared By:		审核/Checked By:		批准/Approved By:		