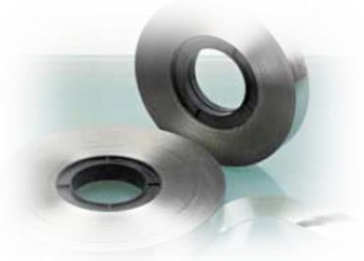


Nanocrystalline soft magnetic material

Fe-based Nanocrystalline Alloy 1K107 thin strip



1. Elemental composition

Unit : (at%)

	Fe	Si	B	Cu	M (Nb)
1K107B	73.53	13.48	9.10	0.93	(2.96)

2. Material characteristics table

Item		Performance	Item		Performance
Crystallization	T _x (°C)	500	Magnetic induction	B800(T)	≥1.2
Hardness	Hv	880	H _c	(A/m)	≤1.6
Magnetostriction	λ _s	2.0×10 ⁻⁶	Core loss 0.5T/20k	(W/kg)	≤25
Density	(g/cm ³)	7.2	Core loss 0.3T/100k	(W/kg)	≤1000
Resistivity	δ(μΩ·cm)	130	Permeability	μ(1kHz)	≥70000
Thickness	(μm)	18 ~ 25	Permeability	μ(10kHz)	≥60000
			Permeability	μ(100kHz)	≥10000
			Curie temperature	(°C)	570

3. Specifications

Part No.	Width(mm)	Thickness(μm)
1K107B030	3	23±2
1K107B050	5	
1K107B060	6	
1K107B080	8	
1K107B100	10	
1K107B120	12	
1K107B150	15	
1K107B200	20	
1K107B250	25	

*Max width 30(mm)