



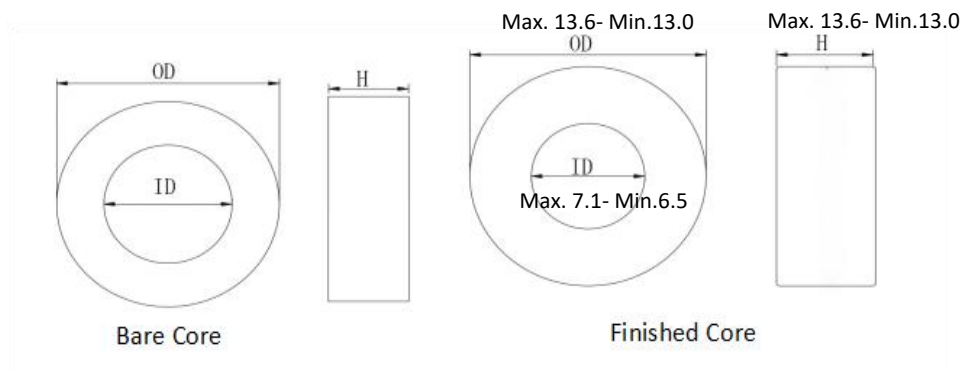
Dongguan JH Amorphous Co., Ltd.

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Address: Room 301, Building 2, 58 Liusha South Road, Shijie, Dongguan, Guangdong, China

Physical Specifications



OD -Outer Diameter ID-Inner Diameter H-core height

Ae-Effective cross section area

Aw-window area

Weight-Weight in Grams

Finish Type: Coating Core

JH P/N	Core Dimensions						Effective cross-section area (mm2)	Mean path length (mm)	Window area (mm2)	Weight (g)	Inductance / Turn	
	Bare Core Dim.(mm)			Finished Core Dim. (mm)							AL(μH) ±30%	
	OD	ID	H	OD	ID	H					10KHz	100KHz
JHNT 120812	12	8.35	12	13.3	6.8	13.3	17	32	55	4.03	50	13.5

Material Properties

Core Material: Fe-based Nanocrystalline 1K107

Saturate induction / Bs (T)	1.25	Saturation Magnetostriction (λs)	2.0
Curie temperature Tc (°C)	560	Density ρ (g/cm ³)	7.2
Crystalline temp. Tx (°C)	500	Resistivity δ (μΩ.cm)	130
Hardness Hv	880	Ribbon Thickness (μm)	18~20
Initial permeability (μi)	80,000	Stacking factor	≥ 0.75
Working temperature Tc (°C)	-40~140		

Electrical Characteristics

Inductance	Turns	Test Condition	Test Equipment
Z=50 μH MIN	1Ts	10KHz/0.1V, 100Ω, 25±5°C	ZX8516B or Equivalent
Z=13.5 μH MIN	1Ts	100KHz/0.1V, 100Ω, 25±5°C	TH2817A or Equivalent
Z=13.5 μH MIN	1Ts	100KHz/0.1V, 100Ω, 25±5°C	TH2818XA or Equivalent



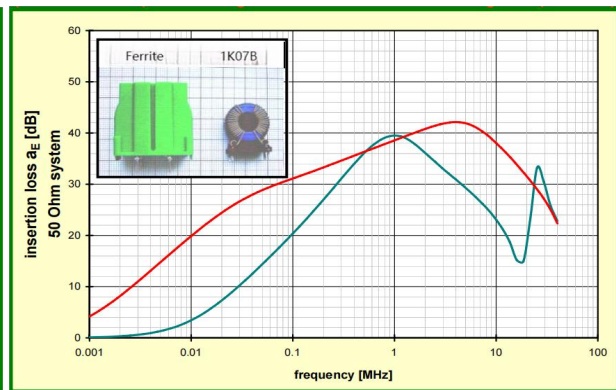
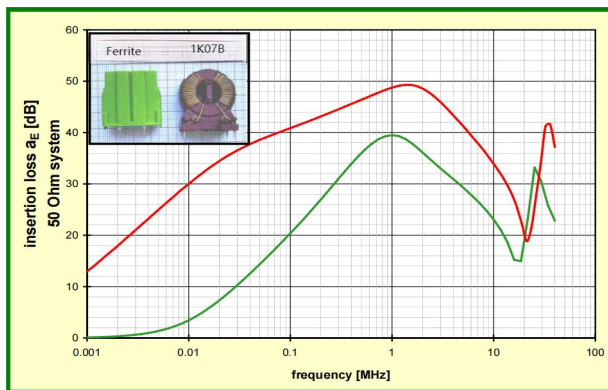
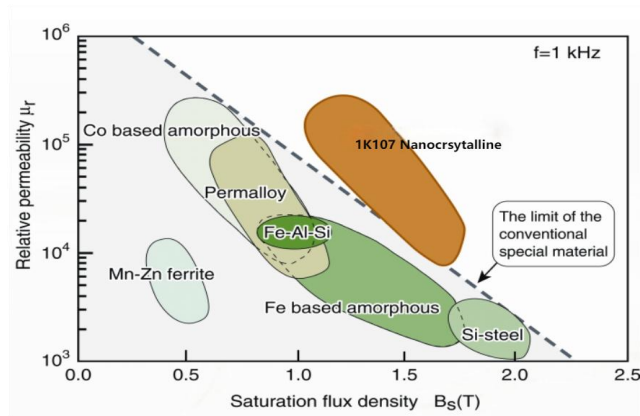
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Permeability of Different Soft Magnet Material Cross reference



$$Z = \omega L = 2 \pi f \mu_0 \mu_r A_{Fe} N^2 / l_{Fe}$$

