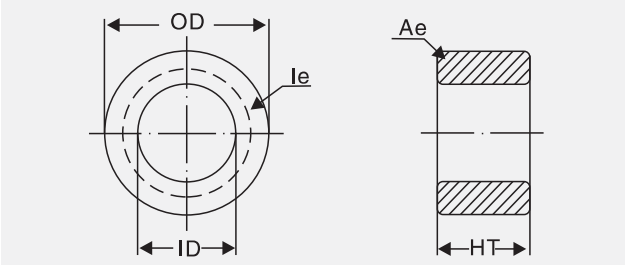
KDM MAGNETIC POWDER CORES

SPECIFICATION FOR APPROVAL

1.Material

Production:	Neu Flux Cores
KDM.P/N:	KNF250-040A
A_L:	128(nH/N^2) ± 8%
Material:	40 μ
Coating Color:	Brown
Coating material:	epoxy
Coating Breakdown Voltage:	1000Vac,0.5mA,2Sec.



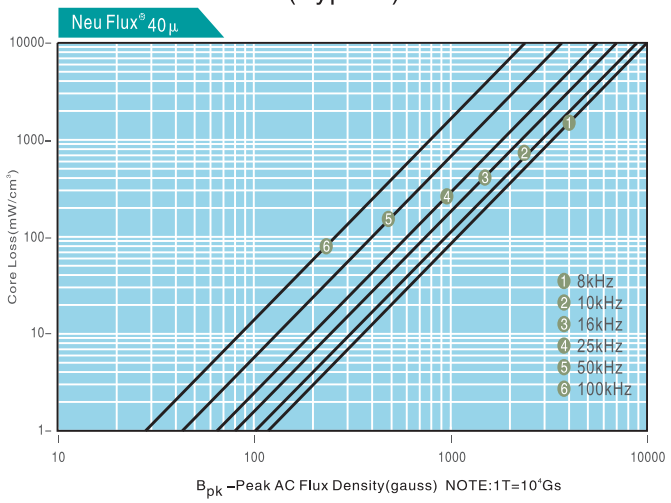
2.Physical Characteristics

Before Coating			After Coating			ℓ_e (cm)	A_e (cm^2)	V (cm^3)	W (cm^2)	Weight	Box Quantity (Pieces)
OD(Max) in/mm	ID(Min) in/mm	Ht(Max) in/mm	OD(Max) mm	ID(Min) mm	Ht(Max) mm						
2.441 / 62.00	1.283 / 32.60	0.984 / 25.00	63.10	31.37	26.27	14.370	3.675	52.810	7.730	368.0g	52

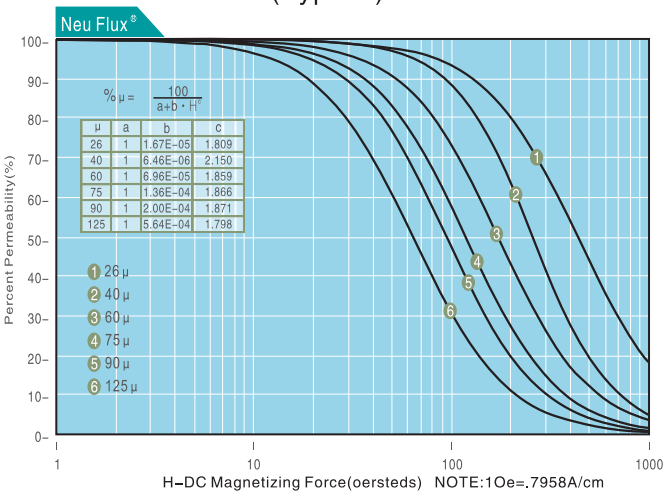
3.Electrical Parameters(Typical) Temperature(25℃ ± 2℃)

Test Item	Test Condition	Value(Typical)
Inductance	ϕ 0.8mm/76Ts, 20kHz/1V, I_{DC}=0A	739.3 μ H ± 8%
DC-Bias	ϕ 0.8mm/76Ts, 20kHz/1V,I_{DC}=15A(H_{DC}=100Oe)	571.3 μ H(Min.)
	ϕ 0.8mm/76Ts, 20kHz/1V,I_{DC}=30A(H_{DC}=200Oe)	408.1 μ H(Min.)
Core Loss	50kHz/1000Gs	700mW/cm^3(Max.)
Remarks	Set the internal resistance of LCR meter to 100Ω.	

Core Loss Curves(Typical)



DC-Bias Curves(Typical)



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