

## SPECIFICATION FOR APPROVAL

### Material

Production:	Neu Flux Cores
FUAN.P/N:	KNF290-090A
AL:	309(nH/N <sup>2</sup> )±8%
Material:	90 μ
Coating Color:	Brown
Coating material:	epoxy
Coating Breakdown Voltage:	1000V, 0.5mA, 2Sec



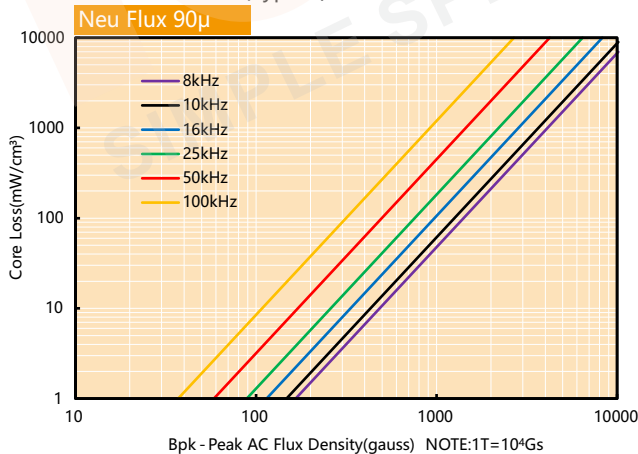
### Physical Characteristics

Before Coating			After Coating			Le(cm)	Ae(cm <sup>2</sup> )	V(cm <sup>3</sup> )	W(cm <sup>2</sup> )	Weight (g) (ref.)	Box Quantity (Pieces)
OD(Max.) in/mm	ID(Min.) in/mm	Ht(Max.) in/mm	OD(Max.) mm	ID(Min.) mm	Ht(Max.) mm						
2.945 74.80	1.783 45.30	1.378 35.00	75.20	44.07	36.27	18.380	5.040	92.640	15.246	689.7	27

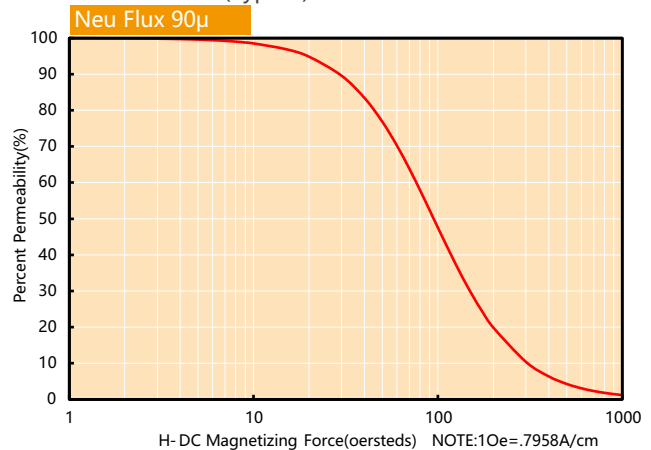
### Electrical Parameters(Typical)      Temperature(25°C±2°C)

Test Item	Test Condition	Value(Typical)	Test Instrument
Inductance	φ0.80mm/98Ts, 20kHz/1V, I=0A (Evenly full windings)	2968μH±8%	CH3302
DC-Bias	φ0.80mm/98Ts, 20kHz/1V, I=15A(H=100Oe) (Evenly full windings)	1283μH(Min.)	WK3255B+WK3265B
Core Loss	50kHz/1000Gs	600mW/cm <sup>3</sup> (Max.)	SY-8219
Remarks	Set the internal resistance of LCR meter to 100Ω.		

### Core Loss Curves(Typical)



### DC-Bias Curves(Typical)



Neu Flux Cores are made of 85% Fe & 15% Si-Ni alloy powder; Its saturation flux density is 16000Gs, permeability is around 26u-90u, the loss is about half of Si-Fe cores, similar to High flux cores, the DC offset performance is better than Si-Fe cores, same as High flux cores, which is a low-cost material can replace High flux cores; Meantime, it is also an ideal substitute for Amorphous powder cores. Moreover, it has excellent temperature stability and high energy storage capacity also solve the noise problem of Amorphous powder cores.