

## SPECIFICATION FOR APPROVAL

### Material

Production:	Sendust Cores
FUAN.P/N:	KS130-090A-E18
AL:	153(nH/N <sup>2</sup> )±8%
Material:	90 μ
Coating Color:	Black
Coating material:	epoxy
Coating Breakdown Voltage:	1000V, 0.5mA, 2Sec



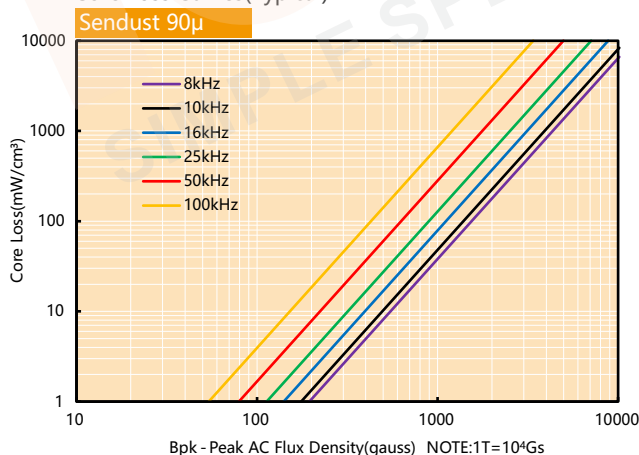
### Physical Characteristics

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						
1.299 33.00	0.783 19.90	0.709 18.00	33.83	19.30	19.00	8.150	1.130	9.219	2.924	57.0	210

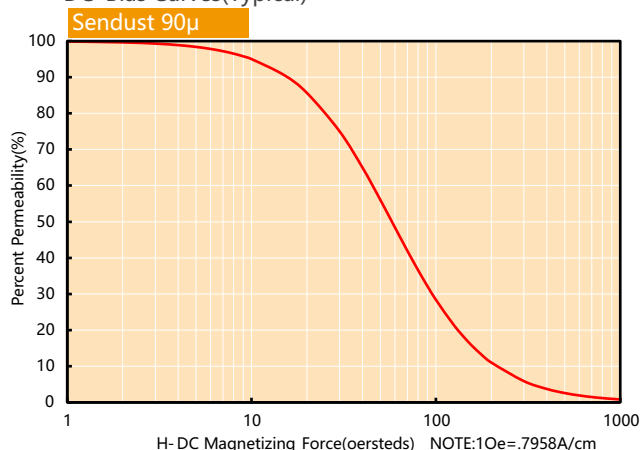
### Electrical Parameters(Typical)      Temperature(25°C±2°C)

Test Item	Test Condition	Value(Typical)	Test Instrument
Inductance	φ0.80mm/43Ts, 20kHz/1V, I=0A (Evenly full windings)	282.9μH±8%	CH3302
DC-Bias	φ0.80mm/43Ts, 20kHz/1V, I=7.5A(H=50Oe) (Evenly full windings)	145.8μH(Min.)	WK3255B+WK3265B
Core Loss	50kHz/1000Gs	350mW/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)



Sendust Cores (KS Series) is made from 85% Fe, 9%Si and 6%Al. It named KoolMu by Magnetics. This material has low loss and relative high saturation flux density (10500Gs). it is very suitable for applying in PFC Chokes, Fly-back Transformers and Storage Filter Inductors. This soft magnetic material is magnetostriction is almost zero, so is special suitable for eliminating the In-line Noise Filters. Sendust Cores do not use organic binding material during the production, so it don't does not have the problem of Thermal Aging. It can work in the environment of 200°C for a long time. Permeability that we can made now is 26ui-125ui in toroid , U type, E type and block. It is the best cost performance magnetic powder.