

## SPECIFICATION FOR APPROVAL

### Material

Production:	Super Sendust Cores
FUAN.P/N:	KS131-090A-HF
AL:	77(nH/N <sup>2</sup> )±8%
Material:	90 μ
Coating Color:	Black
Coating material:	epoxy
Coating Breakdown Voltage:	1000V, 0.5mA, 2Sec



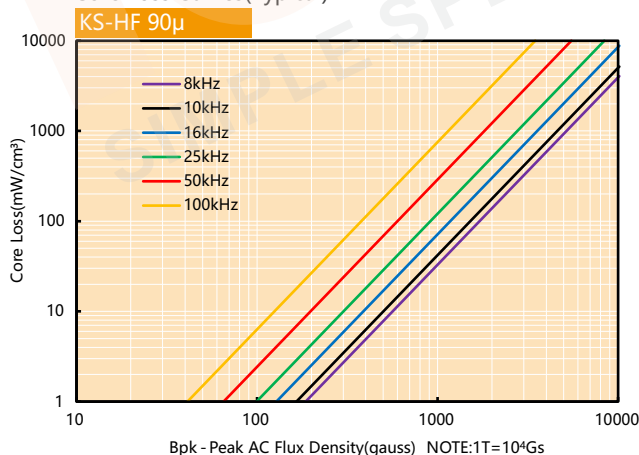
### Physical Characteristics

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	0.345 8.76	33.83	19.30	9.70	8.147	0.551	4.490	2.924	29.8	378

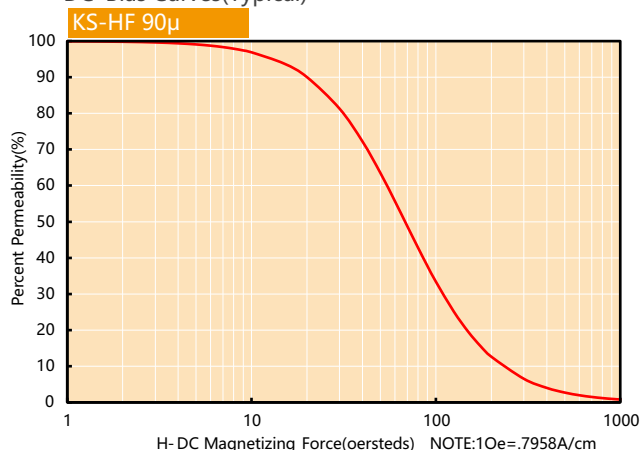
### Electrical Parameters(Typical)      Temperature(25°C±2°C)

Test Item	Test Condition	Value(Typical)	Test Instrument
Inductance	φ0.80mm/43Ts, 20kHz/1V, I=0A (Evenly full windings)	142.4μH±8%	CH3302
DC-Bias	φ0.80mm/43Ts, 20kHz/1V, I=7.5A(H=50Oe) (Evenly full windings)	89.1μH(Min.)	WK3255B+WK3265B
Core Loss	50kHz/1000Gs	370mW/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)



Super Sendust Cores ( KS-HF Series) is a new type of magnetic material which has good DC bias characteristics close to Si-Fe cores with core losses similar to Sendust Cores. High permeability KS-HF cores (75-125μ) will be an economic solution for applications which require high permeability such as low power switching power supply, server power, automotive, solar power. KS-HF cores with low permeability (26-60μ) are applied to various large current applications which lower losses and excellent DC bias characteristics are critical. They are applied to various applications such as UPS, power Inverter, industrial power.