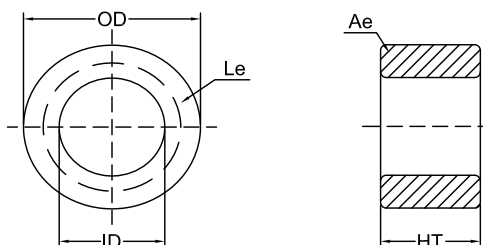


## SPECIFICATION FOR APPROVAL

### Material

|                            |                            |
|----------------------------|----------------------------|
| Production:                | Super Sendust Cores        |
| FUAN.P/N:                  | KS106-090A-HF              |
| AL:                        | 113(nH/N <sup>2</sup> )±8% |
| Material:                  | 90 μ                       |
| Coating Color:             | Black                      |
| Coating material:          | epoxy                      |
| Coating Breakdown Voltage: | 1000V, 0.5mA, 2Sec         |



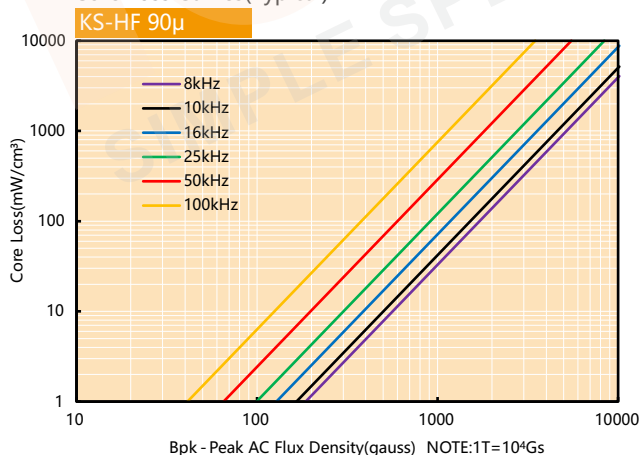
### Physical Characteristics

| 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 |        |                      |                     |                     |                   |                       |
| 1.059<br>26.90 | 0.579<br>14.70 | 0.441<br>11.20 | 27.70         | 14.10       | 11.99       | 6.350  | 0.654                | 4.150               | 1.561               | 27.4              | 504                   |

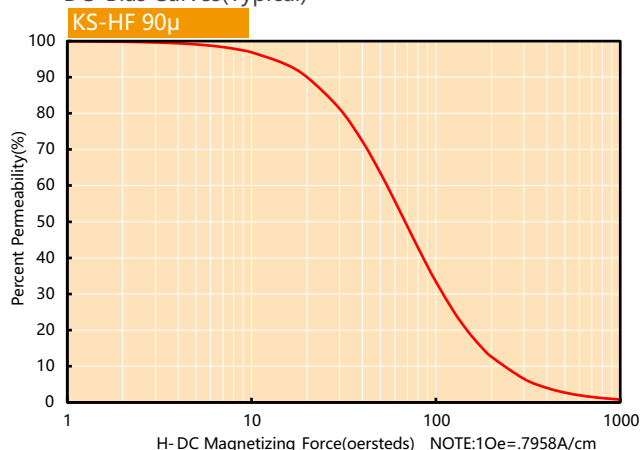
### Electrical Parameters(Typical)      Temperature(25°C±2°C)

| Test Item  | Test Condition   | Value(Typical)               | Test Instrument |
|------------|--|------------------------------|-----------------|
| Inductance | φ0.80mm/34Ts, 20kHz/1V, I=0A<br>(Evenly full windings)           | 130.6μH±8%                   | CH3302          |
| DC-Bias    | φ0.80mm/34Ts, 20kHz/1V, I=7.4A(H=50Oe)<br>(Evenly full windings) | 81.7μH(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.