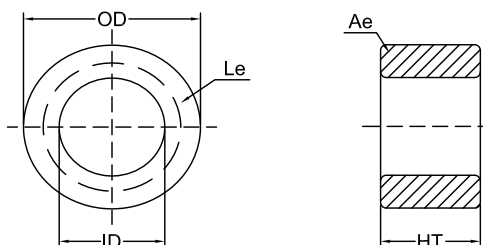


## SPECIFICATION FOR APPROVAL

### Material

|                            |                           |
|----------------------------|---------------------------|
| Production:                | Super Sendust Cores       |
| FUAN.P/N:                  | KS068-026A-HF             |
| AL:                        | 19(nH/N <sup>2</sup> )±8% |
| Material:                  | 26 μ                      |
| Coating Color:             | Black                     |
| Coating material:          | epoxy                     |
| Coating Breakdown Voltage: | 1000V, 0.5mA, 2Sec        |



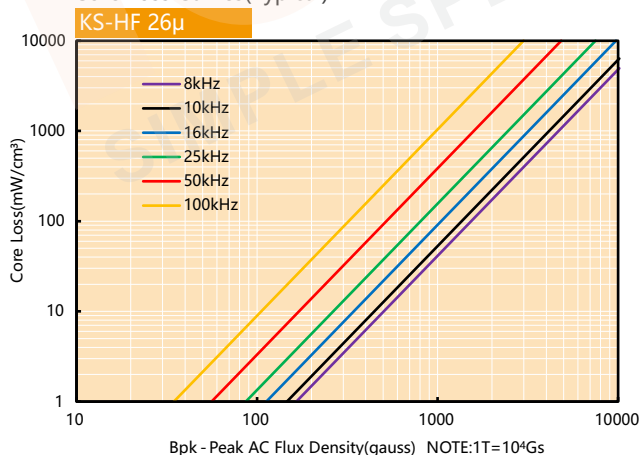
### Physical Characteristics

| 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 |        |                      |                     |                     |                   |                       |
| 0.681<br>17.30 | 0.380<br>9.65  | 0.250<br>6.35  | 18.03         | 9.02        | 7.11        | 4.140  | 0.232                | 0.960               | 0.639               | 6.1               | 2400                  |

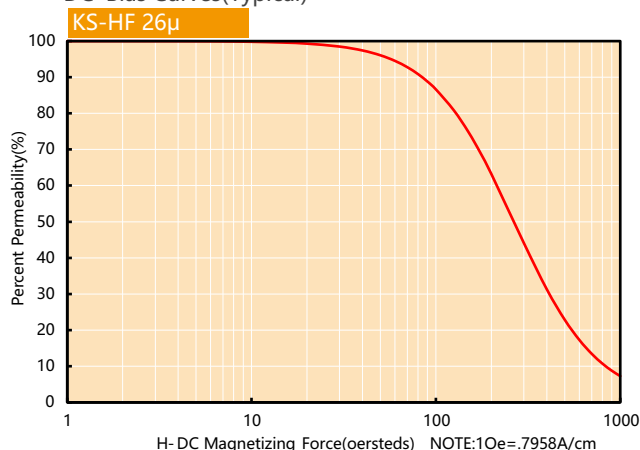
### Electrical Parameters(Typical)      Temperature(25°C±2°C)

| Test Item  | Test Condition  | Value(Typical)               | Test Instrument |
|------------|---|------------------------------|-----------------|
| Inductance | φ1.2mm/22Ts, 20kHz/1V, I=0A<br>(Evenly full windings)           | 9.2μH±8%                     | CH3302          |
| DC-Bias    | φ1.2mm/22Ts, 20kHz/1V, I=30A(H=200Oe)<br>(Evenly full windings) | 5.3μH(Min.)                  | WK3255B+WK3265B |
|            | φ1.2mm/22Ts, 20kHz/1V, I=45A(H=300Oe)<br>(Evenly full windings) | 3.7μH(Min.)                  |                 |
| Core Loss  | 50kHz/1000Gs  | 480mW/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.