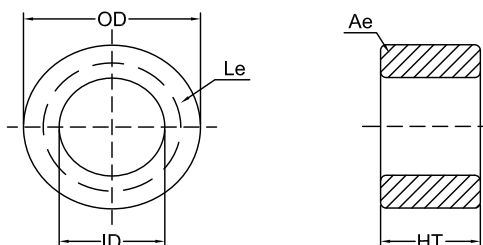


## SPECIFICATION FOR APPROVAL

### Material

|                            |                            |
|----------------------------|----------------------------|
| Production:                | Sendust Cores              |
| FUAN.P/N:                  | KS106-125A-E18             |
| AL:                        | 252(nH/N <sup>2</sup> )±8% |
| Material:                  | 125 μ                      |
| Coating Color:             | Black                      |
| Coating material:          | epoxy                      |
| Coating Breakdown Voltage: | 1000V, 0.5mA, 2Sec         |



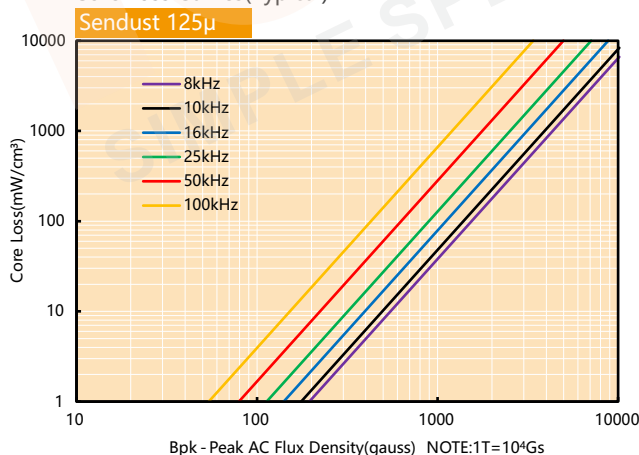
### Physical Characteristics

| 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 | 0.709<br>18.00 | 27.70         | 14.10       | 19.00       | 6.350  | 1.051                | 6.670               | 1.561               | 41.6              | 280                   |

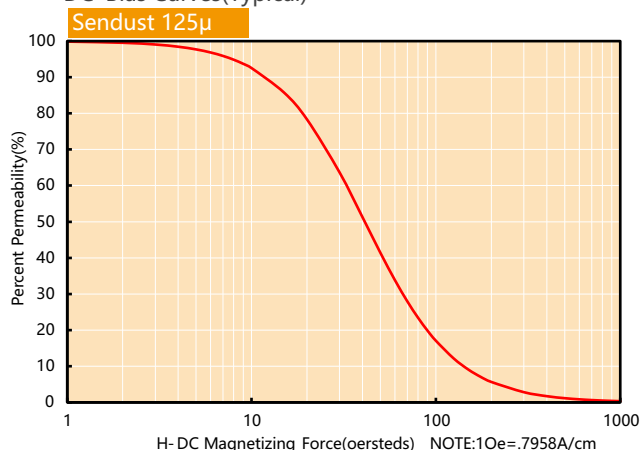
### Electrical Parameters(Typical)      Temperature(25°C±2°C)

| Test Item  | Test Condition   | Value(Typical)               | Test Instrument |
|------------|--|------------------------------|-----------------|
| Inductance | φ0.80mm/34Ts, 20kHz/1V, I=0A<br>(Evenly full windings)           | 291.3μH±8%                   | CH3302          |
| DC-Bias    | φ0.80mm/34Ts, 20kHz/1V, I=7.4A(H=50Oe)<br>(Evenly full windings) | 109.9μH(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.