

SPECIFICATION FOR APPROVAL

Material

| | |
|----------------------------|----------------------------|
| Production: | Sendust Cores |
| FUAN.P/N: | KS157-125A |
| AL: | 168(nH/N ²)±8% |
| Material: | 125 μ |
| Coating Color: | Black |
| Coating material: | epoxy |
| Coating Breakdown Voltage: | 1000V, 0.5mA, 2Sec |



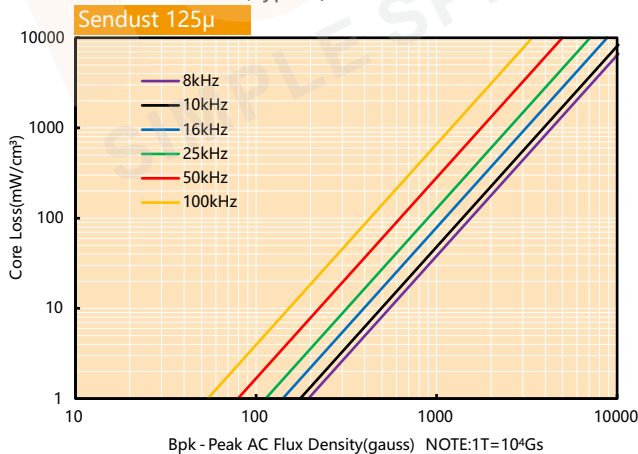
Physical Characteristics

| Before Coating | | | After Coating | | | Le(cm) | Ae(cm ²) | V(cm ³) | W(cm ²) | 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 | | | | | | |
| 1.571 39.90 | 0.949 24.10 | 0.571 14.50 | 40.72 | 23.30 | 15.37 | 9.840 | 1.072 | 10.500 | 4.262 | 66.5 | 150 |

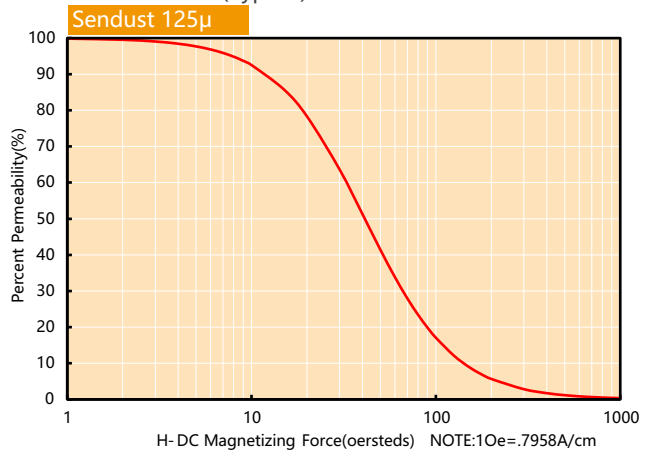
Electrical Parameters(Typical) Temperature(25°C±2°C)

| Test Item | Test Condition | Value(Typical) | Test Instrument |
|------------|--|------------------------------|-----------------|
| Inductance | φ0.80mm/52Ts, 20kHz/1V, I=0A (Evenly full windings) | 454.3μH±8% | CH3302 |
| DC-Bias | φ0.80mm/52Ts, 20kHz/1V, I=7.5A(H=50Oe) (Evenly full windings) | 171.4μH(Min.) | WK3255B+WK3265B |
| Core Loss | 50kHz/1000Gs | 350mW/cm ³ (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.