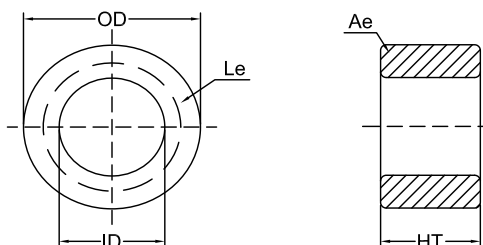


## SPECIFICATION FOR APPROVAL

### Material

|                            |                           |
|----------------------------|---------------------------|
| Production:                | Neu Flux Cores            |
| FUAN.P/N:                  | KNF132-090A               |
| AL:                        | 97(nH/N <sup>2</sup> )±8% |
| Material:                  | 90 μ                      |
| Coating Color:             | Brown                     |
| Coating material:          | epoxy                     |
| Coating Breakdown Voltage: | 1000V, 0.5mA, 2Sec        |



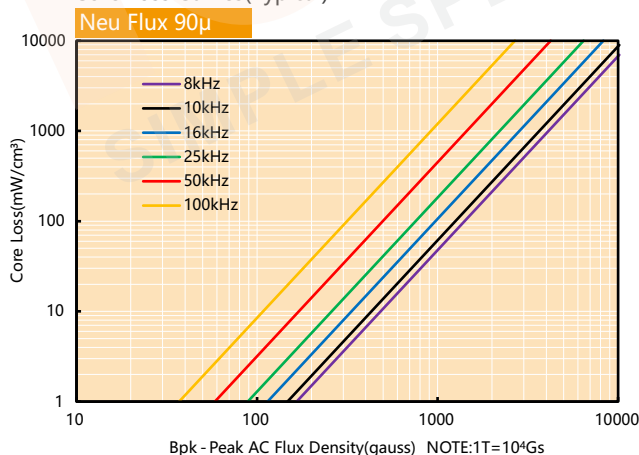
### Physical Characteristics

| 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<br>33.00 | 0.783<br>19.90 | 0.440<br>11.18 | 33.83         | 19.30       | 11.99       | 8.147  | 0.698                | 5.687               | 2.924               | 41.7              | 336                   |

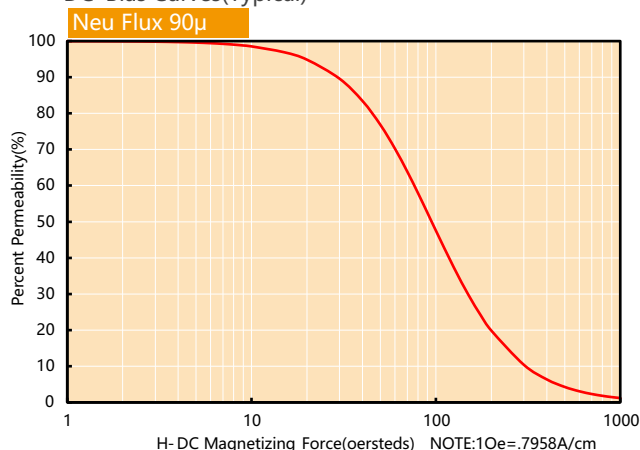
### Electrical Parameters(Typical)      Temperature(25°C±2°C)

| Test Item  | Test Condition                                                   | Value(Typical)               | Test Instrument |
|------------|------------------------------------------------------------------|------------------------------|-----------------|
| Inductance | φ0.80mm/43Ts, 20kHz/1V, I=0A<br>(Evenly full windings)           | 179.4μH±8%                   | CH3302          |
| DC-Bias    | φ0.80mm/43Ts, 20kHz/1V, I=15A(H=100Oe)<br>(Evenly full windings) | 77.6μH(Min.)                 | WK3255B+WK3265B |
| Core Loss  | 50kHz/1000Gs                                                     | 600mW/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)



Neu Flux Cores are made of 85% Fe & 15% Si-Ni alloy powder; Its saturation flux density is 16000Gs, permeability is around 26u-90u, the loss is about half of Si-Fe cores, similar to High flux cores, the DC offset performance is better than Si-Fe cores, same as High flux cores, which is a low-cost material can replace High flux cores; Meantime, it is also an ideal substitute for Amorphous powder cores. Moreover, it has excellent temperature stability and high energy storage capacity also solve the noise problem of Amorphous powder cores.