

## SPECIFICATION FOR APPROVAL

### Material

|                            |                            |
|----------------------------|----------------------------|
| Production:                | Neu Flux Cores             |
| FUAN.P/N:                  | KNF168-090A                |
| AL:                        | 161(nH/N <sup>2</sup> )±8% |
| Material:                  | 90 μ                       |
| Coating Color:             | Brown                      |
| Coating material:          | epoxy                      |
| Coating Breakdown Voltage: | 1000V, 0.5mA, 2Sec         |



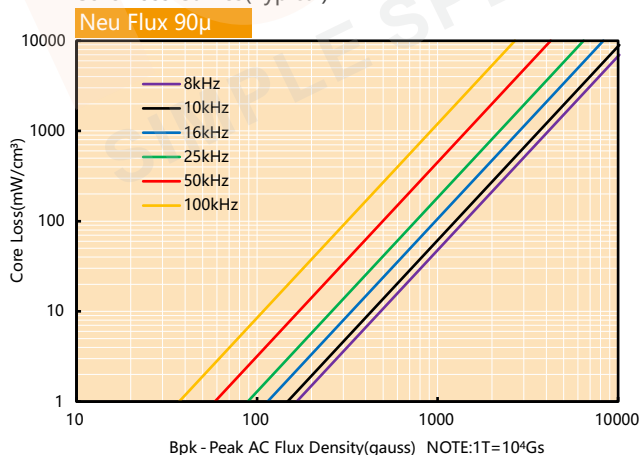
### Physical Characteristics

| 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 |        |                      |                     |                     |                   |                       |
| 1.689<br>42.90 | 0.953<br>24.20 | 0.640<br>16.26 | 44.00         | 23.30       | 17.16       | 10.216 | 1.475                | 15.741              | 4.262               | 114.8             | 125                   |

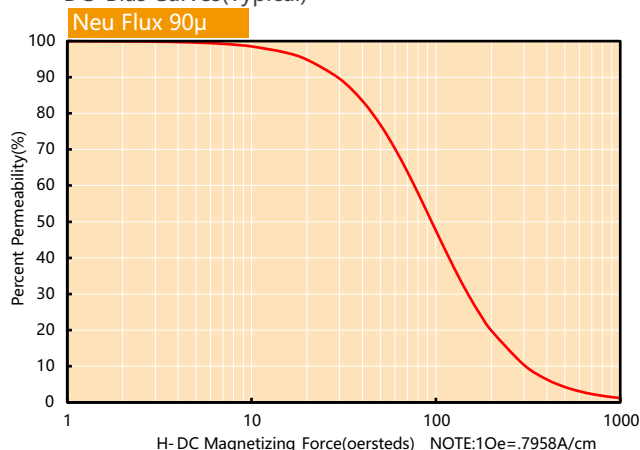
### Electrical Parameters(Typical)      Temperature(25°C±2°C)

| Test Item  | Test Condition   | Value(Typical)               | Test Instrument |
|------------|--|------------------------------|-----------------|
| Inductance | φ0.80mm/54Ts, 20kHz/1V, I=0A<br>(Evenly full windings)           | 469.5μH±8%                   | CH3302          |
| DC-Bias    | φ0.80mm/54Ts, 20kHz/1V, I=15A(H=100Oe)<br>(Evenly full windings) | 203.0μH(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.