

SPECIFICATION FOR APPROVAL

Material

| | |
|----------------------------|---------------------------|
| Production: | Neu Flux Cores |
| FUAN.P/N: | KNF141-075A |
| AL: | 70(nH/N ²)±8% |
| Material: | 75 μ |
| Coating Color: | Brown |
| Coating material: | epoxy |
| Coating Breakdown Voltage: | 1000V, 0.5mA, 2Sec |



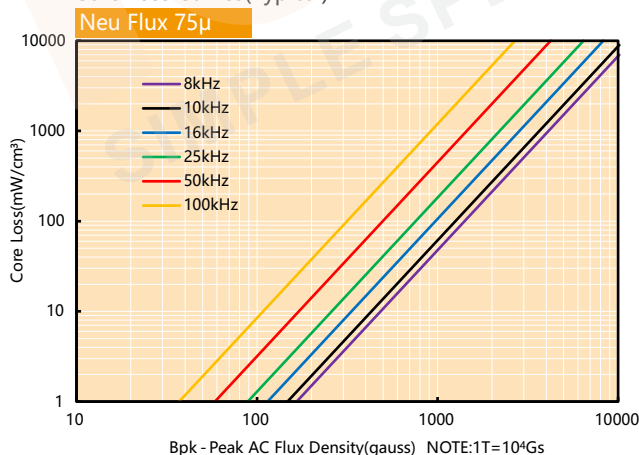
Physical Characteristics

| 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 | | | | | | |
| 1.409 35.80 | 0.882 22.40 | 0.413 10.50 | 36.63 | 21.54 | 11.28 | 8.980 | 0.678 | 6.088 | 3.642 | 43.2 | 270 |

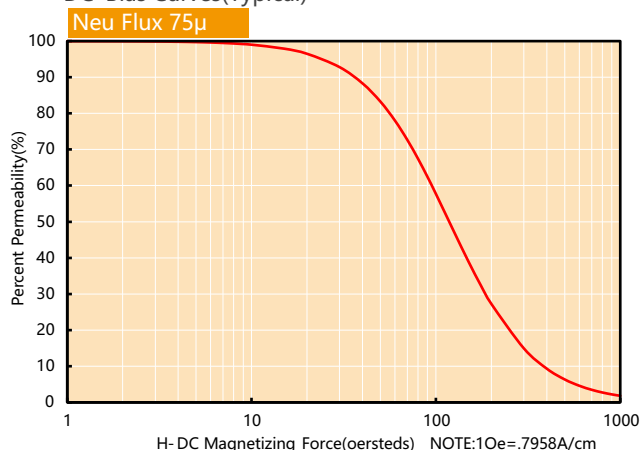
Electrical Parameters(Typical) Temperature(25°C±2°C)

| Test Item | Test Condition | Value(Typical) | Test Instrument |
|------------|--|------------------------------|-----------------|
| Inductance | φ0.80mm/48Ts, 20kHz/1V, I=0A (Evenly full windings) | 161.3μH±8% | CH3302 |
| DC-Bias | φ0.80mm/48Ts, 20kHz/1V, I=15A(H=100Oe) (Evenly full windings) | 86.1μH(Min.) | WK3255B+WK3265B |
| Core Loss | 50kHz/1000Gs | 600mW/cm ³ (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.