



Specification of Magnetic Powder Core

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| Part Number | Product Series | Permeability (u) | A _L (nH/N ²) | Coating Color | Coating Material | Coating Breakdown Voltage |
|-------------|-----------------------|------------------|-------------------------------------|---------------|------------------|---------------------------|
| MKS400-125 | MKS | 125 | 168±8% | Black | Epoxy | 1.5KVac / 0.5mA / 3sec |
| Description | Toroidal Sendust Core | | | | | |

Core Dimensions

| Dimensions | Before Coating | | After Coating | | Min / Max |
|------------|----------------|-------|---------------|-------|-----------|
| | inch | mm | inch | mm | |
| OD | 1.570 | 39.90 | 1.602 | 40.72 | Max |
| ID | 0.950 | 24.10 | 0.918 | 23.30 | Min |
| HT | 0.570 | 14.50 | 0.605 | 15.37 | Max |



Physical Characteristics & Packaging

| Path Length Le (cm) | Cross Section Ae (cm ²) | Core Volume Ve (cm ³) | Window Area Wa (cm ²) | Weight (g) | Box QTY (pcs) |
|---------------------|-------------------------------------|-----------------------------------|-----------------------------------|------------|---------------|
| 9.840 | 1.072 | 10.500 | 4.270 | 66±5% | 216 |

Electrical Features (@25°C±2°C)

| Test Item | Condition | Value (Typical) |
|------------|--|---------------------------|
| Inductance | ∅1.0 mm, 50TS, 100KHz, 1.0V, 0A | 420uH±8% |
| DC-Bias | ∅1.0 mm, 50TS, 100KHz, 1.0V, I _{DC(100 Oe)} = 15.74 A | 18% Min |
| Core Loss | ∅1.0mm, 50TS, 50KHz, 1000Gauss | 250mW/cm ³ Max |
| Hi-Pot | 1.5KVac, 0.5mA, 3 sec | PASS |

DC Bias Curves

