



Specification of Magnetic Powder Core

Mirrack
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| Part Number | Product Series | Permeability (u) | A_L (nH/N ²) | Coating Color | Coating Material | Coating Breakdown Voltage |
|-------------|-----------------------|------------------|----------------------------|---------------|------------------|---------------------------|
| MKS112-125 | MKS | 125 | 53±8% | Black | Epoxy | 800Vac / 0.5mA / 3sec |
| Description | Toroidal Sendust Core | | | | | |

Core Dimensions

| Dimensions | Before Coating | | After Coating | | Min / Max |
|------------|----------------|-------|---------------|-------|-----------|
| | inch | mm | inch | mm | |
| OD | 0.440 | 11.20 | 0.468 | 11.89 | Max |
| ID | 0.250 | 6.35 | 0.232 | 5.89 | Min |
| HT | 0.156 | 3.96 | 0.186 | 4.72 | 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) |
|---------------------|-------------------------------------|-----------------------------------|-----------------------------------|------------|---------------|
| 2.690 | 0.090 | 0.243 | 0.273 | 1.6±5% | 10000 |

Electrical Features (@25°C±2°C)

| Test Item | Condition | Value (Typical) |
|------------|---|---------------------------|
| Inductance | ∅0.5mm, 30TS, 100KHz, 1.0V, 0A | 47.7uH±8% |
| DC-Bias | ∅0.5 mm, 30TS, 100KHz, 1.0V, I _{DC(100 Oe)} = 7.17 A | 18% Min |
| Core Loss | ∅0.5mm, 30TS, 50KHz, 1000Gauss | 250mW/cm ³ Max |
| Hi-Pot | 800Vac, 0.5mA, 3 sec | PASS |

DC Bias Curves

