



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 |
|-------------|-----------------------|------------------|----------------------------|---------------|------------------|---------------------------|
| MKS468-090 | MKS | 90 | 128±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 | 1.840 | 46.70 | 1.875 | 47.63 | Max |
| ID | 1.130 | 28.70 | 1.098 | 27.89 | Min |
| HT | 0.600 | 15.20 | 0.635 | 16.13 | 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) |
|---------------------|-------------------------------------|-----------------------------------|-----------------------------------|------------|---------------|
| 11.63 | 1.34 | 15.53 | 6.11 | 95.5±5% | 125 |

Electrical Features (@25°C±2°C)

| Test Item | Condition | Value (Typical) |
|------------|--|---------------------------|
| Inductance | ∅1.0 mm, 50TS, 100KHz, 1.0V, 0A | 320uH±8% |
| DC-Bias | ∅1.0 mm, 50TS, 100KHz, 1.0V, $I_{DC(100Oe)} = 18.51$ A | 27% Min |
| Core Loss | ∅1.0mm, 50TS, 50KHz, 1000Gauss | 300mW/cm ³ Max |
| Hi-Pot | 1.5KVac, 0.5mA, 3 sec | PASS |

DC Bias Curves

