



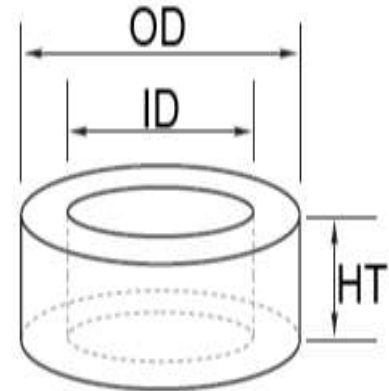
Specification of Magnetic Powder Core

Mirrack
 www.mirrack.com(CN)
 www.mirrack.com.cn (EN)

| Part Number | Product Series | Permeability (u) | A _L (nH/N ²) | Coating Color | Coating Material | Coating Breakdown Voltage |
|-------------|---------------------|------------------|-------------------------------------|---------------|------------------|---------------------------|
| MKF1016-090 | MKF | 90 | 164±8% | Blue | Epoxy | 1.5KVac / 0.5mA /3sec |
| Description | Toroidal Si-Fe Core | | | | | |

Core Dimensions

| Dimensions | Before Coating | | After Coating | | Min / Max |
|------------|----------------|--------|---------------|--------|-----------|
| | inch | mm | inch | mm | |
| OD | 4.000 | 101.60 | 4.050 | 103.12 | Max |
| ID | 2.250 | 57.15 | 2.195 | 55.75 | Min |
| HT | 0.650 | 16.51 | 0.700 | 17.78 | 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) |
|---------------------|-------------------------------------|-----------------------------------|-----------------------------------|------------|---------------|
| 24.271 | 3.523 | 85.495 | 24.413 | 548±5% | 32 |

Electrical Features (@25°C±2°C)

| Test Item | Condition | Value (Typical) |
|------------|--|---------------------------|
| Inductance | ∅1.0 mm, 50TS, 100KHz, 1.0V, 0A | 410uH±8% |
| DC-Bias | ∅1.0 mm, 50TS, 100KHz, 1.0V, I _{DC(100 Oe)} = 38.64 A | 45%Min |
| Core Loss | ∅1.0mm, 50TS, 50KHz, 1000Gauss | 520mW/cm ³ Max |
| Hi-Pot | 1.5KVac, 0.5mA, 3 sec | PASS |

DC Bias Curves

