



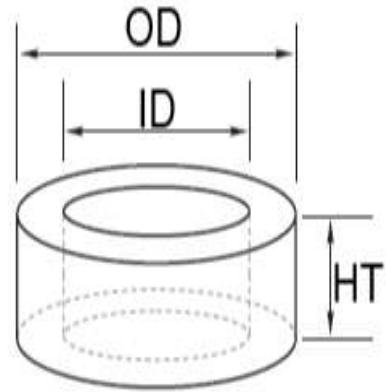
## Specification of Magnetic Powder Core

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

| Part Number | Product Series    | Permeability (u) | $A_L$ (nH/N <sup>2</sup> ) | Coating Color | Coating Material | Coating Breakdown Voltage |
|-------------|-------------------|------------------|----------------------------|---------------|------------------|---------------------------|
| MKU270H-060 | MKU               | 60               | $59 \pm 8\%$               | Brown         | Epoxy            | 1.2KVac / 0.5mA / 3sec    |
| Description | MKU Toroidal Core |                  |                            |               |                  |                           |

### Core Dimensions

| Dimensions | Before Coating |       | After Coating |       | Min / Max |
|------------|----------------|-------|---------------|-------|-----------|
|            | inch           | mm    | inch          | mm    |           |
| OD         | 1.060          | 26.90 | 1.090         | 27.70 | Max       |
| ID         | 0.580          | 14.70 | 0.555         | 14.10 | Min       |
| HT         | 0.340          | 8.64  | 0.372         | 9.45  | Max       |



### Physical Characteristics & Packaging

| Path Length<br>Le (cm) | Cross Section<br>Ae (cm <sup>2</sup> ) | Core Volume<br>Ve (cm <sup>3</sup> ) | Window Area<br>Wa (cm <sup>2</sup> ) | Weight<br>(g)  | Box QTY (pcs) |
|------------------------|----------------------------------------|--------------------------------------|--------------------------------------|----------------|---------------|
| 6.352                  | 0.497                                  | 3.155                                | 1.560                                | $22.2 \pm 5\%$ | 576           |

### Electrical Features (@25°C±2°C)

| Test Item  | Condition                                                           | Value (Typical)           |
|------------|---------------------------------------------------------------------|---------------------------|
| Inductance | Ø0.5mm, 50TS, 100KHz, 1.0V, 0A                                      | 147.5uH±8%                |
| DC-Bias    | Ø0.5mm, 50TS, 100KHz, 1.0V, $I_{DC(100\text{Oe})} = 10.11\text{ A}$ | 60% Min                   |
| Core Loss  | Ø0.5mm, 50TS, 50KHz, 1000Gauss                                      | 340mW/cm <sup>3</sup> Max |
| Hi-Pot     | 1.2KVac, 0.5mA, 3 sec                                               | PASS                      |

### DC Bias Curves

