



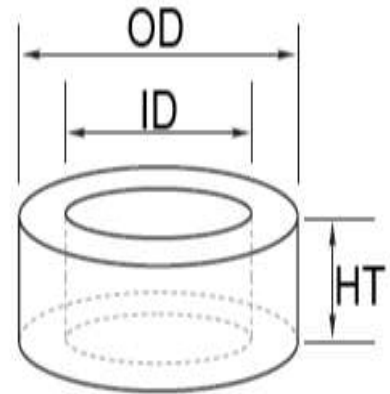
## Specification of Magnetic Powder Core

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 |
|-------------|-----------------------|------------------|----------------------------|---------------|------------------|---------------------------|
| MKS078-075  | MKS                   | 75               | $31 \pm 8\%$               | Black         | Epoxy            | 800Vac / 0.5mA / 3sec     |
| Description | Toroidal Sendust Core |                  |                            |               |                  |                           |

### Core Dimensions

| Dimensions | Before Coating |      | After Coating |      | Min / Max |
|------------|----------------|------|---------------|------|-----------|
|            | inch           | mm   | inch          | mm   |           |
| OD         | 0.310          | 7.87 | 0.335         | 8.51 | Max       |
| ID         | 0.156          | 3.96 | 0.135         | 3.43 | Min       |
| HT         | 0.125          | 3.18 | 0.150         | 3.81 | 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) |
|------------------------|----------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| 1.787                  | 0.061                                  | 0.109                                | 0.092                                | 0.69±5%       | 20000         |

### Electrical Features (@25°C±2°C)

| Test Item  | Condition                                                            | Value (Typical)           |
|------------|----------------------------------------------------------------------|---------------------------|
| Inductance | Ø0.5mm, 10TS, 100KHz, 1.0V, 0A                                       | 3.1uH±8%                  |
| DC-Bias    | Ø0.5 mm, 10TS, 100KHz, 1.0V, $I_{DC(100\text{ Oe})} = 14.3\text{ A}$ | 38% Min                   |
| Core Loss  | Ø0.5mm, 10TS, 50KHz, 1000Gauss                                       | 320mW/cm <sup>3</sup> Max |
| Hi-Pot     | 800Vac, 0.5mA, 3 sec                                                 | PASS                      |

### DC Bias Curves

