

|                                                                                   |                                              |                                                                                                                                                      |
|-----------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Specification of Magnetic Powder Core</b> | <b>Mirrack</b><br><a href="http://www.mirrack.com(CN)">www.mirrack.com(CN)</a><br><a href="http://www.mirrack.com.cn(EN)">www.mirrack.com.cn(EN)</a> |
|-----------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|

| Part Number | Product Series      | Permeability (u) | A <sub>L</sub> (nH/N <sup>2</sup> ) | Coating Color | Coating Material | Coating Breakdown Voltage |
|-------------|---------------------|------------------|-------------------------------------|---------------|------------------|---------------------------|
| MKF203-026  | MKF                 | 26               | 14±8%                               | Blue          | Epoxy            | 800Vac / 0.5mA /3sec      |
| Description | Toroidal Si-Fe Core |                  |                                     |               |                  |                           |

#### Core Dimensions

| Dimensions | Before Coating |       | After Coating |       | Min / Max |
|------------|----------------|-------|---------------|-------|-----------|
|            | inch           | mm    | inch          | mm    |           |
| OD         | 0.800          | 20.30 | 0.830         | 21.10 | Max       |
| ID         | 0.500          | 12.70 | 0.475         | 12.07 | Min       |
| HT         | 0.250          | 6.35  | 0.286         | 7.11  | 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) |
|------------------------|----------------------------------------|--------------------------------------|--------------------------------------|---------------|---------------|
| 5.09                   | 0.226                                  | 1.15                                 | 1.14                                 | 8.5±5%        | 2400          |

#### Electrical Features (@25°C±2°C)

| Test Item  | Condition                                                      | Value (Typical)           |
|------------|----------------------------------------------------------------|---------------------------|
| Inductance | ∅0.5 mm, 50TS, 100KHz, 1.0V, 0A                                | 35uH±8%                   |
| DC-Bias    | ∅0.5 mm, 50TS, 100KHz, 1.0V, I <sub>DC(100 Oe)</sub> = 8.144 A | 88%Min                    |
| Core Loss  | ∅0.5mm, 50TS, 50KHz, 1000Gauss                                 | 820mW/cm <sup>3</sup> Max |
| Hi-Pot     | 800Vac, 0.5mA, 3 sec                                           | PASS                      |

#### DC Bias Curves

