



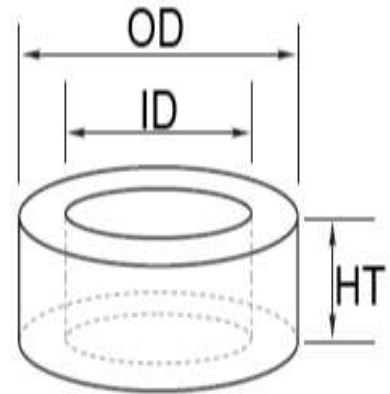
## Specification of Magnetic Powder Core

Mirrack  
 www.mirrack.com(CN)  
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Part Number	Product Series	Permeability (u)	$A_L$ (nH/N <sup>2</sup> )	Coating Color	Coating Material	Coating Breakdown Voltage
MKF203-090	MKF	90	49±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 Le (cm)	Cross Section Ae (cm <sup>2</sup> )	Core Volume Ve (cm <sup>3</sup> )	Window Area Wa (cm <sup>2</sup> )	Weight (g)	Box QTY (pcs)
5.09	0.226	1.15	1.14	9.0±5%	2400

### Electrical Features (@25°C±2°C)

Test Item	Condition	Value (Typical)
Inductance	∅0.5 mm, 50TS, 100KHz, 1.0V, 0A	122.5uH±8%
DC-Bias	∅0.5 mm, 50TS, 100KHz, 1.0V, I <sub>DC(100 Oe)</sub> = 8.144 A	45%Min
Core Loss	∅0.5mm, 50TS, 50KHz, 1000Gauss	520mW/cm <sup>3</sup> Max
Hi-Pot	800Vac,0.5mA, 3 sec	PASS

### DC Bias Curves

