



## 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
MKF270H-075	MKF	75	74±8%	Blue	Epoxy	1.2KVac / 0.5mA /3sec
Description Toroidal Si-Fe 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 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)
6.352	0.497	3.16	1.56	20.5±5%	576

### Electrical Features (@25°C±2°C)

Test Item	Condition	Value (Typical)
Inductance	∅0.5 mm, 50TS, 100KHz, 1.0V, 0A	185uH±8%
DC-Bias	∅0.5 mm, 50TS, 100KHz, 1.0V, $I_{DC(100\text{Oe})} = 10.16\text{ A}$	55%Min
Core Loss	∅0.5mm, 50TS, 50KHz, 1000Gauss	520mW/cm <sup>3</sup> Max
Hi-Pot	1.2KVac,0.5mA, 3 sec	PASS

### DC Bias Curves

