



## Specification of Magnetic Powder Core

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Part Number	Product Series	Permeability (u)	$A_L$ (nH/N <sup>2</sup> )	Coating Color	Coating Material	Coating Breakdown Voltage
MKS166-090	MKS	90	52±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	0.650	16.50	0.680	17.40	Max
ID	0.400	10.20	0.375	9.53	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)
4.110	0.192	0.789	0.713	5.2±5%	4000

### Electrical Features (@25°C±2°C)

Test Item	Condition	Value (Typical)
Inductance	∅0.5mm, 50TS, 100KHz, 1.0V, 0A	130uH±8%
DC-Bias	∅0.5 mm, 50TS, 100KHz, 1.0V, $I_{DC(100 Oe)} = 6.576$ A	27% Min
Core Loss	∅0.5mm, 50TS, 50KHz, 1000Gauss	300mW/cm <sup>3</sup> Max
Hi-Pot	800Vac, 0.5mA, 3 sec	PASS

### DC Bias Curves

