



Specification of Magnetic Powder Core

Mirrack
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Part Number	Product Series	Permeability (u)	A_L (nH/N ²)	Coating Color	Coating Material	Coating Breakdown Voltage
MKS112-090	MKS	90	38±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	0.440	11.20	0.468	11.89	Max
ID	0.250	6.35	0.232	5.89	Min
HT	0.156	3.96	0.186	4.72	Max



Physical Characteristics & Packaging

Path Length Le (cm)	Cross Section Ae (cm ²)	Core Volume Ve (cm ³)	Window Area Wa (cm ²)	Weight (g)	Box QTY (pcs)
2.690	0.090	0.243	0.273	1.56±5%	10000

Electrical Features (@25°C±2°C)

Test Item	Condition	Value (Typical)
Inductance	∅0.5mm, 30TS, 100KHz, 1.0V, 0A	34.2uH±8%
DC-Bias	∅0.5 mm, 30TS, 100KHz, 1.0V, I _{DC(100 Oe)} = 7.17 A	27% Min
Core Loss	∅0.5mm, 30TS, 50KHz, 1000Gauss	300mW/cm ³ Max
Hi-Pot	800Vac, 0.5mA, 3 sec	PASS

DC Bias Curves

