



Specification of Magnetic Powder Core

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Part Number	Product Series	Permeability (u)	A_L (nH/N ²)	Coating Color	Coating Material	Coating Breakdown Voltage
MKS270H-090	MKS	90	89±8%	Black	Epoxy	1.2KVac / 0.5mA / 3sec
Description	Toroidal Sendust 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 ²)	Core Volume Ve (cm ³)	Window Area Wa (cm ²)	Weight (g)	Box QTY (pcs)
6.352	0.497	3.155	1.560	20.5±5%	576

Electrical Features (@25°C±2°C)

Test Item	Condition	Value (Typical)
Inductance	∅0.5mm, 50TS, 100KHz, 1.0V, 0A	222.5uH±8%
DC-Bias	∅0.5 mm, 50TS, 100KHz, 1.0V, $I_{DC(100 Oe)} = 10.11$ A	27% Min
Core Loss	∅0.5mm, 50TS, 50KHz, 1000Gauss	300mW/cm ³ Max
Hi-Pot	1.2KVac, 0.5mA, 3 sec	PASS

DC Bias Curves

