



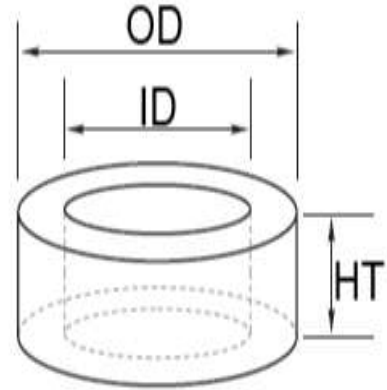
Specification of Magnetic Powder Core

Mirrack
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Part Number	Product Series	Permeability (u)	A_L (nH/N ²)	Coating Color	Coating Material	Coating Breakdown Voltage
MKS400-090	MKS	90	121 ± 8%	Black	Epoxy	1.5KVac / 0.5mA / 3sec
Description	Toroidal Sendust Core					

Core Dimensions

Dimensions	Before Coating		After Coating		Min / Max
	inch	mm	inch	mm	
OD	1.570	39.90	1.602	40.72	Max
ID	0.950	24.10	0.918	23.30	Min
HT	0.570	14.50	0.605	15.37	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)
9.840	1.072	10.500	4.270	65.5 ± 5%	216

Electrical Features (@25°C ± 2°C)

Test Item	Condition	Value (Typical)
Inductance	∅1.0 mm, 50TS, 100KHz, 1.0V, 0A	302.5uH ± 8%
DC-Bias	∅1.0 mm, 50TS, 100KHz, 1.0V, $I_{DC(100 Oe)} = 15.74$ A	27% Min
Core Loss	∅1.0mm, 50TS, 50KHz, 1000Gauss	300mW/cm ³ Max
Hi-Pot	1.5KVac, 0.5mA, 3 sec	PASS

DC Bias Curves

