



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
MKS358-090	MKS	90	84±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	1.410	35.80	1.442	36.63	Max
ID	0.880	22.40	0.848	21.54	Min
HT	0.412	10.50	0.444	11.28	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)
8.980	0.678	6.088	3.640	36.0±5%	441

Electrical Features (@25°C±2°C)

Test Item	Condition	Value (Typical)
Inductance	∅1.0 mm, 50TS, 100KHz, 1.0V, 0A	210uH±8%
DC-Bias	∅1.0 mm, 50TS, 100KHz, 1.0V, $I_{DC(100Oe)} = 14.36$ A	27% Min
Core Loss	∅1.0mm, 50TS, 50KHz, 1000Gauss	300mW/cm ³ Max
Hi-Pot	1.2KVac, 0.5mA, 3 sec	PASS

DC Bias Curves

