



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
MKS343-125	MKS	125	79±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	1.350	34.30	1.382	35.10	Max
ID	0.920	23.40	0.888	22.56	Min
HT	0.350	8.89	0.387	9.83	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)
8.950	0.454	4.060	4.010	25.5±5%	441

Electrical Features (@25°C±2°C)

Test Item	Condition	Value (Typical)
Inductance	∅1.0 mm, 50TS, 100KHz, 1.0V, 0A	197.5uH±8%
DC-Bias	∅1.0 mm, 50TS, 100KHz, 1.0V, $I_{DC(100Oe)} = 14.25$ A	18% Min
Core Loss	∅1.0mm, 50TS, 50KHz, 1000Gauss	250mW/cm ³ Max
Hi-Pot	1.2KVac, 0.5mA, 3 sec	PASS

DC Bias Curves

