



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
MKF172-090	MKF	90	64±8%	Blue	Epoxy	800Vac / 0.5mA /3sec
Description	Toroidal Si-Fe Core					

Core Dimensions

Dimensions	Before Coating		After Coating		Min / Max
	inch	mm	inch	mm	
OD	0.680	17.30	0.710	18.03	Max
ID	0.380	9.65	0.355	9.02	Min
HT	0.250	6.35	0.280	7.11	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)
4.14	0.232	0.96	0.638	7.4 ± 5%	4000

Electrical Features (@25°C±2°C)

Test Item	Condition	Value (Typical)
Inductance	∅0.5 mm, 50TS, 100KHz, 1.0V, 0A	160uH±8%
DC-Bias	∅0.5 mm, 50TS, 100KHz, 1.0V, I _{DC(100 Oe)} = 6.62 A	45%Min
Core Loss	∅0.5mm, 50TS, 50KHz, 1000Gauss	520mW/cm ³ Max
Hi-Pot	800Vac,0.5mA, 3 sec	PASS

DC Bias Curves

