



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
MKF078-090	MKF	90	37±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	0.310	7.87	0.335	8.51	Max
ID	0.156	3.96	0.135	3.43	Min
HT	0.125	3.18	0.150	3.81	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)
1.787	0.061	0.109	0.092	0.8 ± 5%	20000

Electrical Features (@25°C±2°C)

Test Item	Condition	Value (Typical)
Inductance	∅0.5 mm, 10TS, 100KHz, 1.0V, 0A	3.7uH±8%
DC-Bias	∅0.5 mm, 10TS, 100KHz, 1.0V, I _{DC(100 Oe)} = 14.3 A	45%Min
Core Loss	∅0.5mm, 10TS, 50KHz, 1000Gauss	520mW/cm ³ Max
Hi-Pot	800Vac, 0.5mA, 3 sec	PASS

DC Bias Curves

