



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
MKF610-090	MKF	90	288±8%	Blue	Epoxy	1.5KVac / 0.5mA /3sec
Description	Toroidal Si-Fe Core					

Core Dimensions

Dimensions	Before Coating		After Coating		Min / Max
	inch	mm	inch	mm	
OD	2.441	62.00	2.484	63.10	Max
ID	1.283	32.60	1.235	31.37	Min
HT	0.984	25.00	1.034	26.27	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)
14.37	3.675	52.81	7.73	368±5%	64

Electrical Features (@25°C±2°C)

Test Item	Condition	Value (Typical)
Inductance	∅1.0 mm, 50TS, 100KHz, 1.0V, 0A	720uH±8%
DC-Bias	∅1.0 mm, 50TS, 100KHz, 1.0V, I _{DC(100 Oe)} = 22.88 A	45%Min
Core Loss	∅1.0mm, 50TS, 50KHz, 1000Gauss	520mW/cm ³ Max
Hi-Pot	1.5KVac,0.5mA, 3 sec	PASS

DC Bias Curves

