0059431A2

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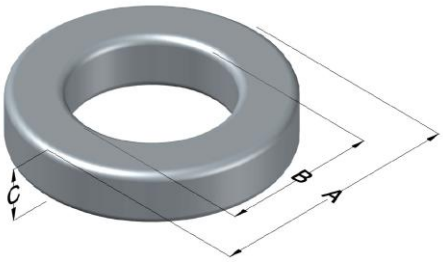


Edge Permeability (μ)	A_L (nH/T^2)	Core Marking			Coating Color
		Lot Number	Part Number	Inductance Grade	
40	90 ± 8%	XXXXXX	59431A2	N/A	Green

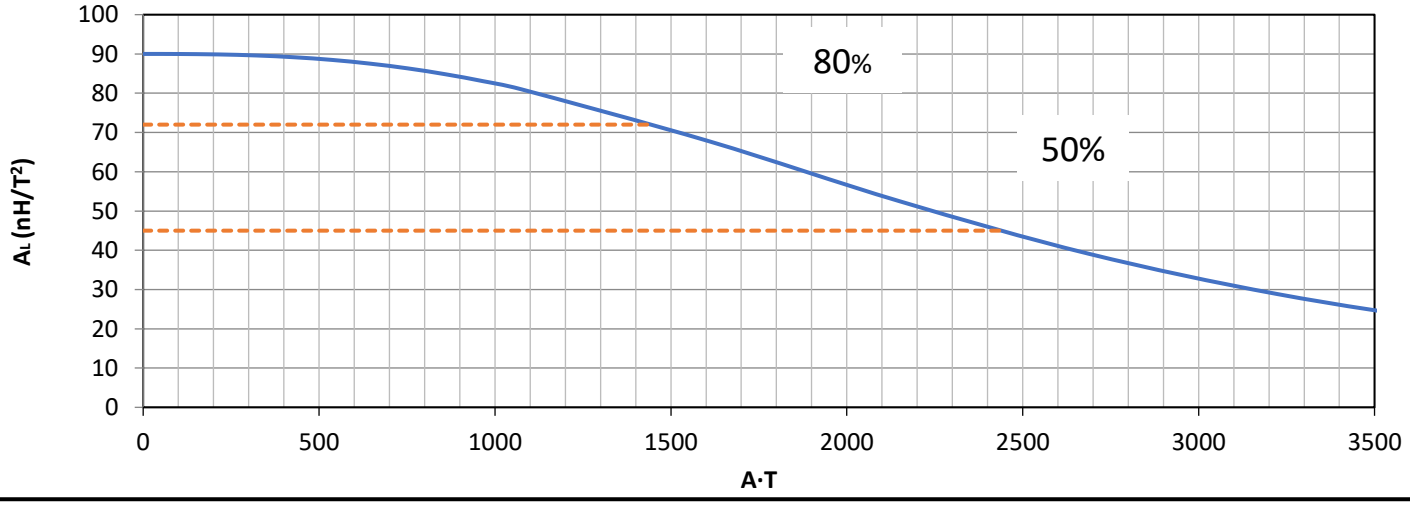
Dimensions	Uncoated		Coated Limits			Packaging
	(mm)	(in)	(mm)	(in)		
OD (A)	46.74	1.840	47.63	1.875	max	Cardboard cut-outs Box Qty= 105 pcs
ID (B)	24.13	0.950	23.32	0.918	min	
HT (C)	18.03	0.710	18.92	0.745	max	

Electrical Characteristics			Physical Characteristics						
Watt Loss @ 100 kHz, 100 mT max (mW/cm^3)	DC Bias min (oersteds)		Voltage Breakdown wire to wire min (V_{AC})	Break Strength min (kg)	Window Area W_a(mm^2)	Cross Section A_e (mm^2)	Path Length L_e (mm)	Volume V_e (mm^3)	Est. Weight (g)
	80%	50%							
625	150	250	3000	233	427	199	107.4	21,400	161

Winding Information				Temperature Rating
Winding Length Per Turn				Curie Temp: 500°C
Winding Factor	(mm)	Winding Factor	(mm)	Coating Temp (Continuous up to): 200°C
0%	62.2	40%	74.2	Notes:
20%	68.3	45%	76.0	
25%	69.7	50%	77.6	
30%	71.0	60%	81.3	
35%	72.8	70%	85.6	

Wound Coil Dimensions (mm)		
40% Winding Factor	OD	52.4
	HT	26.1
Completely Full Window	Max OD	54.8
	Max HT	35.7
Surface Area (mm^2)		
Unwound Core		6,900
40% Winding Factor		9,500

Typical DC Bias Performance



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