



**0059212A2**

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Edge Permeability ( $\mu$ )	$A_L$ (nH/T <sup>2</sup> )	Core Marking			Coating Color
		Lot Number	Part Number	Inductance Grade	
40	50 $\pm$ 8%	XXXXXX	59212A2	N/A	Green

Dimensions	Uncoated		Coated Limits			Packaging
	(mm)	(in)	(mm)	(in)		
OD (A)	57.15	2.250	58.04	2.285	max	Cardboard cut-outs Box Qty= 90 pcs
ID (B)	35.56	1.400	34.75	1.368	min	
HT (C)	13.97	0.550	14.86	0.585	max	

Electrical Characteristics			Physical Characteristics						
Watt Loss @ 100kHz, 100mT max (mW/cm <sup>3</sup> )	DC Bias min (oersteds)		Voltage Breakdown wire to wire min (V <sub>AC</sub> )	Break Strength min (kg)	Window Area W <sub>a</sub> (mm <sup>2</sup> )	Cross Section A <sub>e</sub> (mm <sup>2</sup> )	Path Length L <sub>e</sub> (mm)	Volume V <sub>e</sub> (mm <sup>3</sup> )	Est. Weight (g)
	80%	50%							
625	150	250	3000	107.0	948	144	143.0	20,700	150

Winding Information					Temperature Rating	
Winding Length Per Turn				Wound Coil Dimensions (mm)		Curie Temp: 500°C
Winding Factor	(mm)	Winding Factor	(mm)	40% Winding Factor	OD	65.2
					HT	25.7
0%	53.0	40%	70.8	Completely Full Window	Max OD	68.8
20%	62.0	45%	73.5		Max HT	40.1
25%	64.2	50%	75.9	Surface Area (mm <sup>2</sup> )		
30%	66.0	60%	81.3	Unwound Core	7,700	
35%	68.8	70%	87.5	40% Winding Factor	13,000	
Notes:						
Coating Temp (Continuous up to): 200°C						

