



**0058450A2**

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High Flux Permeability ( $\mu$ )	$A_L$ (nH/T <sup>2</sup> )	Core Marking			Coating Color
		Lot Number	Part Number	Inductance Grade	
40	72 ± 8%	XXXXXX	58450A2	N/A	Khaki

Dimensions	Uncoated		Coated Limits			Packaging
	(mm)	(in)	(mm)	(in)		
OD (A)	42.90	1.689	43.84	1.726	max	Cardboard cut-outs Box Qty= 120 pcs
ID (B)	24.21	0.953	23.39	0.921	min	
HT (C)	16.26	0.640	17.27	0.680	max	

Electrical Characteristics			Physical Characteristics						
Watt Loss @ 100 kHz, 50mT 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> )	Weight (g)
	80%	50%							
510	110	215	3000	98.8	430	147.5	102	15100	113

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	47.6
					HT	24.6
0%	55.0	40%	67.1	Completely Full Window	Max OD	59.4
20%	61.1	45%	68.9		Max HT	36.7
25%	62.5	50%	70.8	Surface Area (mm <sup>2</sup> )		
30%	63.8	60%	74.2	Unwound Core		5,800
35%	65.6	70%	78.5	40% Winding Factor		8,400
Coating Temp (Continuous up to): 200°C						
Notes:						

**Typical DC Bias Performance**

