



**0058050AY**

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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	
125	56 ± 8%	XXXXXX	58050AY	N/A	Khaki

Dimensions	Uncoated		Coated Limits			Packaging
	(mm)	(in)	(mm)	(in)		
OD (A)	12.70	0.500	13.28	0.523	max	Bulk Pack 4 bags/box Box Qty= 5000 pcs
ID (B)	7.62	0.300	7.17	0.282	min	
HT (C)	4.75	0.187	5.33	0.210	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%							
1000	46	81	1250	8.0	38.4	10.9	31.2	340	2.88

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		Coating Temp (Continuous up to): 200°C
				OD	14.9	Notes:
0%	16.8	40%	20.5	HT	7.73	
				Max OD	15.7	
20%	18.6	45%	20.9	Max HT	10.1	
25%	19.1	50%	21.5	Surface Area (mm <sup>2</sup> )		
30%	19.4	60%	22.6	Unwound Core	540	
35%	20.0	70%	23.8	40% Winding Factor	790	

