



**0055145AY**

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MPP Permeability ( $\mu$ )	$A_L$ (nH/T <sup>2</sup> )	Core Marking			Coating Color
		Lot Number	Part Number	Inductance Grade	
300	84 ± 8%	N/A	N/A	N/A	Clear

Dimensions	Uncoated		Coated Limits			Packaging
	(mm)	(in)	(mm)	(in)		
OD (A)	3.94	0.155	4.39	0.173	max	Bulk Pack 5 vials/box Box Qty= 7500 pcs
ID (B)	2.24	0.088	1.91	0.075	min	
HT (C)	2.54	0.100	3.00	0.118	max	

Electrical Characteristics			Physical Characteristics						
Watt Loss @ 100 kHz, 100mT max(mW/cm <sup>3</sup> )	DC Bias min (Oersted)		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%							
1050	8.50	17.5	600V	0.9	2.32	2.11	9.42	19.9	0.1751

Winding Information					Temperature Rating	
Winding Length Per Turn				Wound Coil Dimensions (mm)		Curie Temp: 460°C
Winding Factor	(mm)	Winding Factor	(mm)	40% Winding Factor		Coating Temp (Continuous up to): 130°C
				OD	4.85	Notes:
				HT	3.73	
				Completely Full Window		Max OD
Surface Area (mm <sup>2</sup> )		Max HT	4.75			
		Unwound Core		90		
40% Winding Factor		110				
0%	9.20	40%	10.1			
20%	9.64	45%	10.2			
25%	9.76	50%	10.3			
30%	9.84	60%	10.6			
35%	9.98	70%	10.9			

### Typical DC Bias Performance

