



**0055178AY**

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MPP Permeability ( $\mu$ )	$A_L$ (nH/T <sup>2</sup> )	Core Marking			Coating Color
		Lot Number	Part Number	Inductance Grade	
160	53 ± 8%	N/A	N/A	N/A	Clear

Dimensions	Uncoated		Coated Limits			Packaging
	(mm)	(in)	(mm)	(in)		
OD (A)	4.65	0.183	5.10	0.201	max	Bulk Pack 5 vials/box Box Qty= 5000 pcs
ID (B)	2.36	0.093	2.03	0.080	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 (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%							
900	21.0	39.0	600	1.8	2.69	2.85	10.6	30.3	0.2585

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	OD	5.56
					HT	3.73
0%	9.79	40%	10.7	Completely Full Window	Max OD	6.65
20%	10.3	45%	10.9		Max HT	4.94
25%	10.4	50%	11.0	Surface Area (mm <sup>2</sup> )		Notes: Parylene coated, color appears clear to milky white.
30%	10.5	60%	11.3	Unwound Core	110	
35%	10.6	70%	11.6	40% Winding Factor	130	

### Typical DC Bias Performance

