



**CORNERS:**  
0.016 Approx.  
Radius Bottom,  
Chamfer Top

**Dimensions**

	Outside Diameter	Inside Diameter	Height
Before Coating Nominal	0.380 in 9.65 mm	0.188 in 4.78 mm	0.156 in 3.96 mm
After Coating (Parylene C)	0.405 in Max. 10.29 mm Max.	0.168 in Min. 4.27 mm Min.	0.180 in Max. 4.57 mm Max.

**Physical Specifications**

Effective Cross Sectional Area of Magnetic Path, $A_e$ (Reference)	Effective Magnetic Path Length, $l_e$ (Reference)	Effective Core Volume, $V_e$ (Reference)	Minimum Window Area (Reference)	Approximate Weight of Finished 125 $\mu$ Core	Approximate Mean Length of Turn for Full Winding (Half of I.D. Remaining)
0.01465 in <sup>2</sup> 0.0945 cm <sup>2</sup>	0.859 in 2.177 cm	0.01258 in <sup>3</sup> 0.2060 cm <sup>3</sup>	0.02217 in <sup>2</sup> 0.14301 cm <sup>2</sup> 28,224 cmil	MPP 1.625g HF 1.625g SMSS 1.275g	0.59 in 1.50 cm

**Electrical Specifications**

Nominal Permeability	Inductance Factor, mH +/- 8% (+/- 12% for SUPER-MSS) for 1000 turns	Approximate Ratio of DC Resistance to Inductance for Full Winding (Half of I.D. Remaining), $\Omega$ /mH	Part Numbers			
			Molypermalloy	HI-FLUX	SUPER-MSS	
14 $\mu$	7	5.9	NEW MP-038014-8	OLD A-249007-8	HF-038014-8	MS-038014-8
26 $\mu$	14	2.9	MP-038026-8	A-248014-8	HF-038026-8	MS-038026-8
60 $\mu$	32	1.3	MP-038060-8	A-247032-8	HF-038060-8	MS-038060-8
75 $\mu$	40	1.0	—	—	—	MS-038075-8
90 $\mu$	48	0.85	—	—	—	MS-038090-8
125 $\mu$	66	0.62	MP-038125-8	A-246066-8	HF-038125-8	MS-038125-8
147 $\mu$	78	0.53	MP-038147-8	A-245078-8	HF-038147-8	*MS-038147-8
160 $\mu$	84	0.49	MP-038160-8	A-240084-8	HF-038160-8	—
173 $\mu$	92	0.45	MP-038173-8	A-244092-8	—	—
205 $\mu$	109	0.38	MP-038205-8	A-202109-8	—	—
250 $\mu$	132	0.31	MP-038250-8	A-365132-8	—	—
300 $\mu$	159	0.26	MP-038300-8	A-387159-8	—	—
350 $\mu$	185	0.22	MP-038350-8	A-408185-8	—	—

**Heavy Film Magnet Wire Winding Data (Approximate)**

AWG	mm	Full Winding (Half of I.D. Remaining)		Single Layer Winding with 1 inch Leads		
		Turns	$R_{dc}$ $\Omega$	Turns	$R_{dc}$ $\Omega$	$l_w$ in.
19	0.900	11	0.00483	9	0.00567	8.5
20	0.800	14	0.00751	11	0.00783	9.3
21	0.710	17	0.01171	12	0.0109	10
22	0.630	22	0.01845	14	0.0152	11
23	0.560	27	0.0284	16	0.0209	12
24	0.500	33	0.0443	18	0.0291	14
25	0.450	42	0.0689	21	0.0405	15
26	0.400	52	0.1081	23	0.0567	17
27	0.355	64	0.1663	26	0.0782	18
28	0.315	80	0.262	29	0.110	20
29	0.280	98	0.397	33	0.150	22
30	0.250	124	0.632	37	0.212	25
31	0.224	154	0.986	41	0.293	27
32	0.200	188	1.486	46	0.397	29
33	0.180	236	2.35	51	0.558	33

  

AWG	mm	Full Winding (Half of I.D. Remaining)		Single Layer Winding		
		Turns	$R_{dc}$ $\Omega$	Turns	$R_{dc}$ $\Omega$	$l_w$ in.
34	0.160	296	3.72	58	0.795	37
35	0.140	371	5.86	65	1.12	41
36	0.125	462	9.15	73	1.55	45
37	0.112	570	13.90	81	2.10	49
38	0.100	722	22.2	90	2.96	55
39	0.090	943	37.7	103	4.37	62
40	0.080	1152	58.5	116	6.25	70
41	0.070	1439	89.4	129	8.49	77
42	0.063	1848	143.6	146	11.9	86
43	0.056	2282	229.0	161	17.0	95
44	0.056	2661	322.0	173	22.1	102

Remarks: \* = New part no.