



**CORNERS:**  
0.031 Approx.  
Radius (Typical)

**Dimensions**

	Outside Diameter	Inside Diameter	Height
Before Coating Nominal	0.655 in 16.64 mm	0.400 in 10.16 mm	0.250 in 6.35 mm
After Coating (Blue Epoxy)	0.685 in Max. 17.40 mm Max.	0.375 in Min. 9.53 mm Min.	0.280 in Max. 7.11 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)
0.0298 in <sup>2</sup> 0.1920 cm <sup>2</sup>	1.619 in 4.11 cm	0.0483 in <sup>3</sup> 0.7891 cm <sup>3</sup>	0.11045 in <sup>2</sup> 0.71256 cm <sup>2</sup> 140,625 cmil	MPP HF SMSS	6.60g 6.400g 5.100g

**Electrical Specifications**

Nominal Permeability	Inductance Factor, mH +/- 8% 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 $\mu$	8	1.6	NEW MP-065014-2	OLD A-268008-2	HF-065014-2	MS-065014-2
26 $\mu$	15	0.86	MP-065026-2	A-267015-2	HF-065026-2	MS-065026-2
60 $\mu$	36	0.36	MP-065060-2	A-266036-2	HF-065060-2	MS-065060-2
75 $\mu$	43	0.30	—	—	—	MS-065075-2
90 $\mu$	52	0.25	—	—	—	MS-065090-2
125 $\mu$	72	0.18	MP-065125-2	A-281072-2	HF-065125-2	MS-065125-2
147 $\mu$	88	0.15	MP-065147-2	A-264088-2	HF-065147-2	*MS-065147-2
160 $\mu$	92	0.14	MP-065160-2	A-285092-2	HF-065160-2	—
173 $\mu$	104	0.12	MP-065173-2	A-263104-2	—	—
205 $\mu$	123	0.11	MP-065205-2	A-262123-2	—	—
250 $\mu$	144	0.090	MP-065250-2	A-369144-2	—	—
300 $\mu$	173	0.074	MP-065300-2	A-391173-2	—	—

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

AWG	mm	Full Winding (Half of I.D. Remaining)			Single Layer Winding		
		Turns	$R_{dc}$ $\Omega$	$l_w$ ft.	Turns	$R_{dc}$ $\Omega$	$l_w$ ft.
12	2.000	11	0.00150	1.04	10	0.00165	1.04
13	1.800	14	0.00234	1.15	11	0.00230	1.15
14	1.600	17	0.00365	1.26	13	0.00318	1.26
15	1.400	22	0.00569	1.39	15	0.00443	1.39
16	1.250	27	0.00889	1.54	17	0.00617	1.54
17	1.120	34	0.01375	1.69	19	0.00856	1.69
18	1.000	42	0.0215	1.87	21	0.0119	1.87
19	0.900	53	0.0333	2.07	24	0.0166	2.07
20	0.800	66	0.0516	2.28	27	0.0231	2.28
21	0.710	82	0.0802	2.53	31	0.0323	2.53
22	0.630	103	0.1261	2.80	35	0.0453	2.80
23	0.560	127	0.1937	3.09	39	0.0626	3.09
24	0.500	159	0.3026	3.41	44	0.0876	3.41
25	0.450	197	0.471	3.79	49	0.123	3.79
26	0.400	246	0.739	4.20	55	0.172	4.20
27	0.355	304	1.137	4.64	62	0.239	4.64
28	0.315	380	1.792	5.15	69	0.336	5.15
29	0.280	466	2.72	5.67	77	0.460	5.67

AWG	mm	Full Winding (Half of I.D. Remaining)			Single Layer Winding		
		Turns	$R_{dc}$ $\Omega$	$l_w$ ft.	Turns	$R_{dc}$ $\Omega$	$l_w$ ft.
30	0.250	586	4.34	6.31	86	0.654	6.31
31	0.224	724	6.77	6.93	95	0.907	6.93
32	0.200	892	10.22	7.61	105	1.23	7.61
33	0.180	1117	16.18	8.45	118	1.74	8.45
34	0.160	1401	25.7	9.50	133	2.48	9.50
35	0.140	1756	40.6	10.6	149	3.49	10.6
36	0.125	2190	63.3	11.7	165	4.85	11.7
37	0.112	2703	96.2	12.9	183	6.61	12.9
38	0.100	3422	153.6	14.4	205	9.33	14.4
39	0.090	4469	261.0	16.3	233	13.8	16.3
40	0.080	5459	406.0	18.3	262	19.7	18.3
41	0.070	6819	621.0	20.3	292	26.9	20.3
42	0.063	8759	998.0	22.8	329	37.8	22.8
43	0.056	10814	1590.0	25.1	363	53.9	25.1

Remarks: \* = New part no.