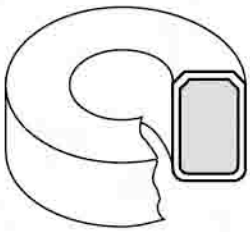

CORNERS:

0.016 Approx. Radius Bottom, Chamfer Top

Dimensions

	Outside Diameter	Inside Diameter	Height
Before Coating Nominal	0.310 in 7.87 mm	0.156 in 3.96 mm	0.125 in 3.18 mm
After Coating (Parylene C)	0.335 in Max. 8.51 mm Max.	0.135 in Min. 3.43 mm Min.	0.150 in Max. 3.81 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 125µ Core		Approximate Mean Length of Turn for Full Winding (Half of I.D. Remaining)
0.00953 in² 0.0615 cm²	0.704 in 1.787 cm	0.00671 in³ 0.1099 cm³	0.01431 in² 0.09235 cm² 18,225 cmil	MPP HF SMSS	0.925g 0.925g 0.725g	0.49 in 1.25 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), Ω/mH	Part Numbers			
			Molypermalloy		HI-FLUX	SUPER-MSS
			NEW	OLD		
14µ	6	8.4	MP-031014-8	A-340006-8	HF-031014-8	MS-031014-8
26µ	11	4.6	MP-031026-8	A-339011-8	HF-031026-8	MS-031026-8
60µ	25	2.0	MP-031060-8	A-138025-8	HF-031060-8	MS-031060-8
75µ	31	1.6	—	—	—	MS-031075-8
90µ	37	1.4	—	—	—	MS-031090-8
125µ	52	0.97	MP-031125-8	A-137052-8	HF-031125-8	MS-031125-8
147µ	62	0.81	MP-031147-8	A-225062-8	HF-031147-8	*MS-031147-8
160µ	66	0.76	MP-031160-8	A-338066-8	HF-031160-8	—
173µ	73	0.68	MP-031173-8	A-223073-8	—	—
205µ	86	0.59	MP-031205-8	A-201086-8	—	—
250µ	104	0.48	MP-031250-8	A-364104-8	—	—
300µ	124	0.41	MP-031300-8	A-386124-8	—	—
350µ	145	0.35	MP-031350-8	A-407145-8	—	—

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}, Ω	Turns	R_{dc}, Ω	l_w, in.
21	0.710	12	0.00651	9	0.00780	7.3
22	0.630	14	0.01027	11	0.0108	8.0
23	0.560	18	0.01580	12	0.0148	8.8
24	0.500	22	0.0247	14	0.0206	9.6
25	0.450	28	0.0384	16	0.0285	11
26	0.400	35	0.0602	18	0.0397	12
27	0.355	43	0.0926	20	0.0545	13
28	0.315	54	0.1457	23	0.0762	14
29	0.280	66	0.221	26	0.104	15
30	0.250	83	0.351	29	0.146	17
31	0.224	103	0.547	33	0.201	19
32	0.200	126	0.824	36	0.272	20
33	0.180	158	1.302	41	0.382	22
34	0.160	198	2.06	46	0.543	25
35	0.140	248	3.25	52	0.760	28

AWG	mm	Full Winding (Half of I.D. Remaining)		Single Layer Winding		
		Turns	R_{dc}, Ω	Turns	R_{dc}, Ω	l_w, in.
36	0.125	309	5.06	58	1.05	30
37	0.112	381	7.68	64	1.43	34
38	0.100	482	12.25	72	2.01	37
39	0.090	630	20.8	82	2.96	42
40	0.080	770	32.3	93	4.22	47
41	0.070	961	49.3	103	5.73	52
42	0.063	1234	79.1	116	8.05	58
43	0.056	1525	125.9	129	11.4	64
44	0.050	1778	177.4	139	14.8	69

Remarks: *= New part no.
Please note this inductance factor tolerance is + or -12%