



CORNERS:
0.031 Approx.
Radius (Typical)

Dimensions

	Outside Diameter	Inside Diameter	Height
Before Coating Nominal	0.800 in 20.32 mm	0.500 in 12.70 mm	0.250 in 6.35 mm
After Coating (Blue Epoxy)	0.830 in Max. 21.08 mm Max.	0.475 in Min. 12.07 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 μ Core	Approximate Mean Length of Turn for Full Winding (Half of I.D. Remaining)
0.035 in ² 0.226 cm ²	2.010 in 5.093 cm	0.07035 in ³ 1.1510 cm ³	0.1772 in ² 1.1433 cm ² 225,625 cmil	MPP 10.100g HF 10.100g SMSS 7.400g	0.90 in 2.29 cm

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), Ω /mH	Part Numbers			
			Molypermalloy	HI-FLUX	SUPER-MSS	
14 μ	7.8	1.1	NEW MP-080014-2	OLD A-057008-2	HF-080014-2	MS-080014-2
26 μ	14	0.60	MP-080026-2	A-511014-2	HF-080026-2	MS-080026-2
60 μ	32	0.26	MP-080060-2	A-848032-2	HF-080060-2	MS-080060-2
75 μ	41	0.21	—	—	—	MS-080075-2
90 μ	49	0.17	—	—	—	MS-080090-2
125 μ	68	0.12	MP-080125-2	A-206068-2	HF-080125-2	MS-080125-2
147 μ	81	0.10	MP-080147-2	A-144081-2	HF-080147-2	*MS-080147-2
150 μ	83	0.10	MP-080150-2	A-241083-2	—	—
160 μ	87	0.096	MP-080160-2	A-271087-2	HF-080160-2	—
173 μ	96	0.088	MP-080173-2	A-173096-2	—	—
205 μ	113	0.074	MP-080205-2	A-207113-2	—	—
250 μ	136	0.062	MP-080250-2	A-371136-2	—	—
300 μ	163	0.052	MP-080300-2	A-393163-2	—	—

Heavy Film Magnet Wire Winding Data (Approximate)

AWG	mm	Full Winding (Half of I.D. Remaining)		Single Layer Winding		
		Turns	R_{dc} , Ω	Turns	R_{dc} , Ω	l_w , ft.
12	2.000	18	0.00254	13	0.00221	1.39
13	1.800	22	0.00395	15	0.00307	1.53
14	1.600	28	0.00614	17	0.00424	1.68
15	1.400	34	0.00954	19	0.00590	1.85
16	1.250	43	0.01488	22	0.00822	2.04
17	1.112	54	0.0230	25	0.0114	2.26
18	1.000	67	0.0358	28	0.0159	2.49
19	0.900	84	0.0556	32	0.0222	2.75
20	0.800	104	0.0860	35	0.0308	3.04
21	0.710	130	0.1337	40	0.0430	3.36
22	0.630	163	0.210	45	0.0604	3.73
23	0.560	201	0.323	50	0.0834	4.11
24	0.500	251	0.504	56	0.117	4.55
25	0.450	312	0.784	63	0.164	5.05
26	0.400	389	1.230	71	0.230	5.60

AWG	mm	Full Winding (Half of I.D. Remaining)		Single Layer Winding		
		Turns	R_{dc} , Ω	Turns	R_{dc} , Ω	l_w , ft.
27	0.355	481	1.894	79	0.318	6.18
28	0.315	602	2.99	89	0.448	6.87
29	0.280	738	4.53	98	0.614	7.56
30	0.250	927	7.23	110	0.872	8.41
31	0.224	1154	11.29	122	1.21	9.24
32	0.200	1412	17.04	134	1.64	10.2
33	0.180	1768	27.0	150	2.32	11.3
34	0.160	2218	42.8	169	3.31	12.7
35	0.140	2779	67.7	189	4.66	14.1
36	0.125	3466	105.5	210	6.48	15.6
37	0.112	4279	160.4	233	8.82	17.2
38	0.100	5415	256.0	261	12.5	19.2
39	0.090	7073	436.0	296	18.4	21.7
40	0.080	8641	678.0	333	26.4	24.4
41	0.070	10793	1036.0	370	35.9	27.1

Remarks: * = New part no.

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