



CORNERS
0.063 Approx.
Radius (Typical)

Dimensions

	Outside Diameter	Inside Diameter	Height
Before Coating Nominal	1.300 in 33.02 mm	0.785 in 19.94 mm	0.420 in 10.67 mm
After Coating (Blue Epoxy)	1.332 in Max. 33.83 mm Max.	0.760 in Min. 19.30 mm Min.	0.457 in Max. 11.61 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)
0.1042 in ² 0.672 cm ²	3.207 in 8.147 cm	0.3345 in ³ 5.4768 cm ³	0.4537 in ² 2.9267 cm ² 577,600 cmil	MPP HF SMSS	45.700g 45.700g 34.000g
					1.47 in 3.72 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	14	0.36	NEW MP-130014-2	OLD A-344014-2	HF-130014-2	MS-130014-2
26 μ	28	0.18	MP-130026-2	A-298028-2	HF-130026-2	MS-130026-2
60 μ	61	0.083	MP-130060-2	A-291061-2	HF-130060-2	MS-130060-2
75 μ	76	0.066	—	—	—	MS-130075-2
90 μ	91	0.055	—	—	—	MS-130090-2
125 μ	127	0.040	MP-130125-2	A-548127-2	HF-130125-2	MS-130125-2
147 μ	150	0.034	MP-130147-2	A-148150-2	HF-130147-2	MS-130147-2
160 μ	163	0.031	MP-130160-2	A-303163-2	HF-130160-2	—
173 μ	176	0.029	MP-130173-2	A-176176-2	—	—
205 μ	208	0.024	MP-130205-2	A-211208-2	—	—
250 μ	254	0.020	MP-130250-2	A-374254-2	—	—

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	44	0.00989	23	0.00517	3.25
13	1.800	55	0.01538	26	0.00722	3.61
14	1.600	69	0.0240	29	0.0100	3.97
15	1.400	86	0.0373	32	0.0140	4.41
16	1.250	108	0.0584	37	0.0197	4.89
17	1.120	135	0.0904	41	0.0274	5.42
18	1.000	169	0.1414	46	0.0384	6.02
19	0.900	210	0.220	52	0.0538	6.69
20	0.800	262	0.342	58	0.0750	7.41
21	0.710	326	0.533	66	0.105	8.24
22	0.630	408	0.840	74	0.148	9.16
23	0.560	505	1.294	82	0.206	10.1
24	0.500	630	2.030	92	0.289	11.3
25	0.450	783	3.16	103	0.406	12.5
26	0.400	978	4.98	115	0.572	13.9
27	0.355	1209	7.68	128	0.794	15.4
28	0.315	1511	12.14	143	1.12	17.2
29	0.280	1854	18.45	159	1.54	18.9

AWG	mm	Full Winding (Half of I.D. Remaining)		Single Layer Winding		
		Turns	R_{dc} Ω	Turns	R_{dc} Ω	l_w ft.
30	0.250	2328	29.5	178	2.19	21.1
31	0.224	2897	46.2	196	3.04	23.2
32	0.200	3546	69.8	216	4.14	25.6
33	0.180	4440	110.6	241	5.85	28.4
34	0.160	5570	175.9	273	8.37	32.0
35	0.140	6979	278	304	11.8	35.6
36	0.125	8703	434	338	16.4	39.6
37	0.112	10744	661	374	22.4	43.7

Remarks: * = New part no.

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