

CORNERS:
0.031 Approx.
Radius (Typical)

Dimensions

	Outside Diameter	Inside Diameter	Height
Before Coating Nominal	0.928 in 23.57 mm	0.567 in 14.40 mm	0.350 in 8.89 mm
After Coating (Blue Epoxy)	0.956 in Max. 24.28 mm Max.	0.542 in Min. 13.77 mm Min.	0.382 in Max. 9.70 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)
0.0610 in ² 0.388 cm ²	2.32 in 5.88 cm	0.1415 in ³ 2.2814 cm ³	0.2307 in ² 1.4885 cm ² 293,764 cmil	MPP 18.900g HF 18.900g SMSS 13.800g	1.44 in 3.66 cm

Electrical Specifications

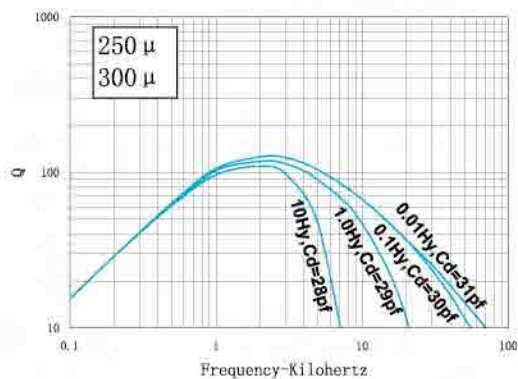
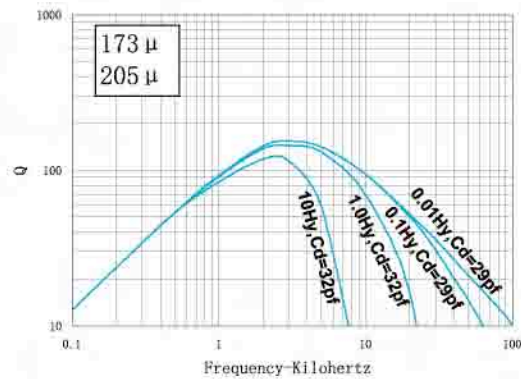
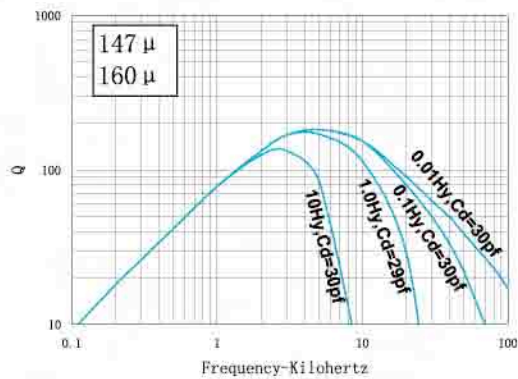
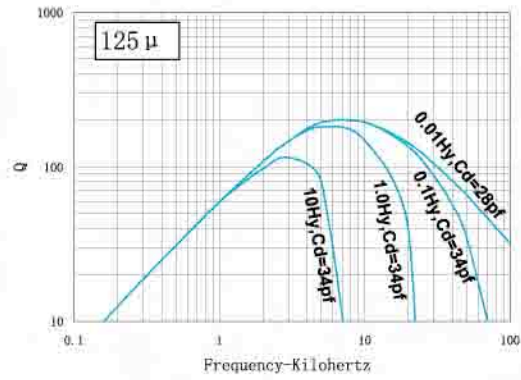
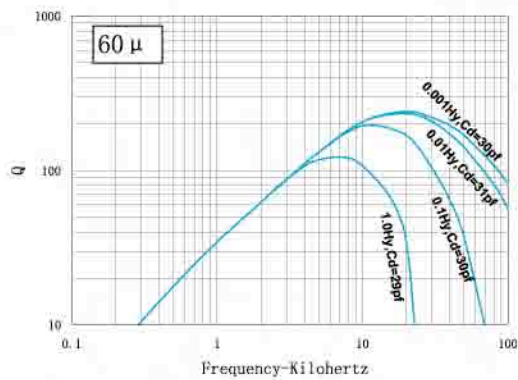
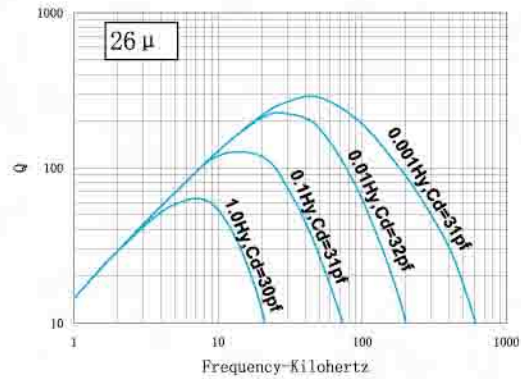
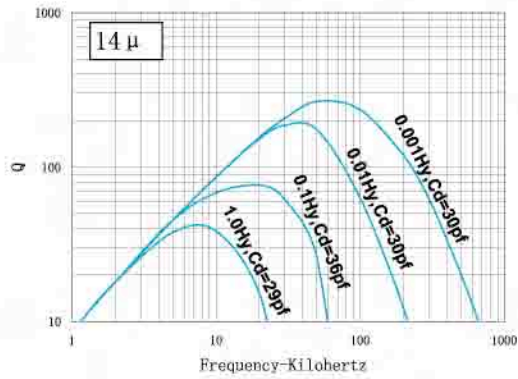
Nominal Permeability	Inductance Factor, mH +/- 8% for 1000 turns	Approximate Ratio of DC Resistance to Inductance for Full Winding (Half of I.D. Remaining), Ω /mH	Part Numbers			
			Molypermalloy	HI-FLUX	SUPER-MSS	
14 μ	12	0.70	NEW MP-092014-2	OLD A-439012-2	HF-092014-2	MS-092014-2
26 μ	22	0.38	MP-092026-2	A-440022-2	HF-092026-2	MS-092026-2
60 μ	51	0.16	MP-092060-2	A-441051-2	HF-092060-2	MS-092060-2
75 μ	63	0.13	—	—	—	MS-092075-2
90 μ	76	0.11	—	—	—	MS-092090-2
125 μ	105	0.080	MP-092125-2	A-442105-2	HF-092125-2	MS-092125-2
147 μ	124	0.067	MP-092147-2	A-443124-2	HF-092147-2	*MS-092147-2
160 μ	135	0.062	MP-092160-2	A-444135-2	HF-092160-2	—
173 μ	146	0.057	MP-092173-2	A-445146-2	—	—
205 μ	173	0.048	MP-092205-2	A-272173-2	—	—
250 μ	211	0.040	MP-092250-2	A-446211-2	—	—
300 μ	253	0.033	MP-092300-2	A-447253-2	—	—

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	23	0.00411	15	0.00307	1.94
13	1.800	28	0.00639	17	0.00429	2.14
14	1.600	36	0.00996	20	0.00595	2.36
15	1.400	43	0.01497	22	0.00832	2.62
16	1.250	56	0.0242	25	0.0116	2.90
17	1.112	69	0.0375	29	0.0162	3.21
18	1.000	87	0.0585	32	0.0227	3.56
19	0.900	103	0.0871	36	0.0318	3.95
20	0.800	135	0.1413	41	0.0443	4.37
21	0.710	161	0.211	46	0.0620	4.85
22	0.630	210	0.346	52	0.0874	5.39
23	0.560	260	0.533	58	0.1210	5.96
24	0.500	325	0.834	65	0.170	6.61
25	0.450	404	1.299	73	0.238	7.36
26	0.400	504	2.04	81	0.336	8.18
27	0.355	623	3.15	91	0.465	9.05
28	0.315	778	4.97	101	0.657	10.1
29	0.280	955	7.55	112	0.901	11.1

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	1200	12.06	126	1.28	12.4
31	0.224	1492	18.86	139	1.78	13.6
32	0.200	1827	28.5	154	2.42	15.0
33	0.180	2288	45.1	171	3.42	16.6
34	0.160	2870	71.7	194	4.89	18.7
35	0.140	3596	113.4	216	6.88	20.8
36	0.125	4484	177.0	240	9.58	23.1
37	0.112	5536	269.0	266	13.1	25.5
38	0.100	7006	430.0	298	18.5	28.5
39	0.090	9151	733.0	338	27.3	32.2
40	0.080	11179	1139.0	380	39.1	36.2

Remarks: * = New part no.



Typical Molypermalloy Q vs. frequency curves at indicated inductance and distributed capacitance.

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