

CORNERS:
0.031 Approx.
Radius (Typical)

Dimensions

	Outside Diameter	Inside Diameter	Height
Before Coating Nominal	0.680 in 17.27 mm	0.380 in 9.65 mm	0.250 in 6.35 mm
After Coating (Blue Epoxy)	0.710 in Max. 18.03 mm Max.	0.355 in Min. 9.02 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)
0.0360 in ² 0.232 cm ²	1.63 in 4.14 cm	0.05868 in ³ 0.9605 cm ³	0.09898 in ² 0.63858 cm ² 126,025 cmil	MPP HF SMSS	7.900g 8.100g 5.800g
					0.90 in 2.29 cm

Electrical Specifications

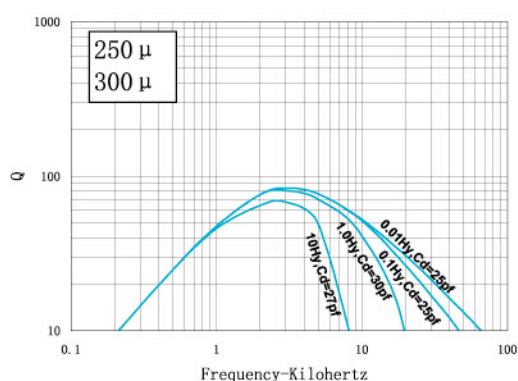
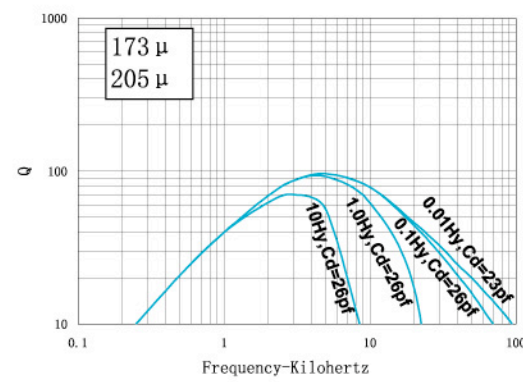
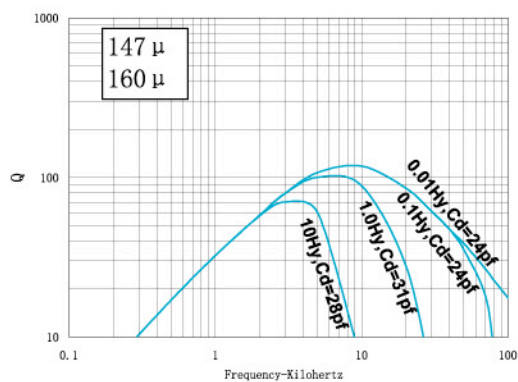
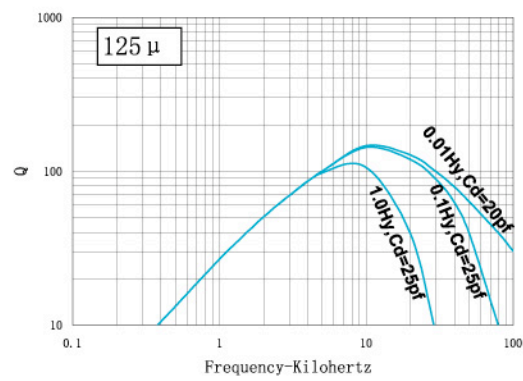
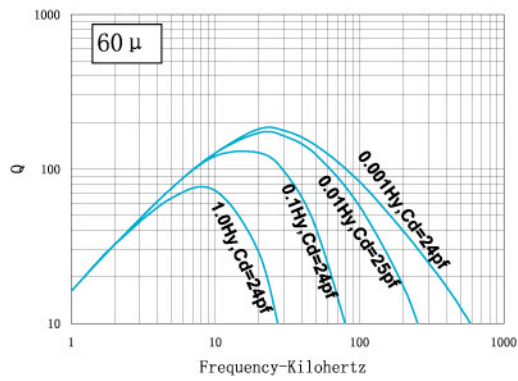
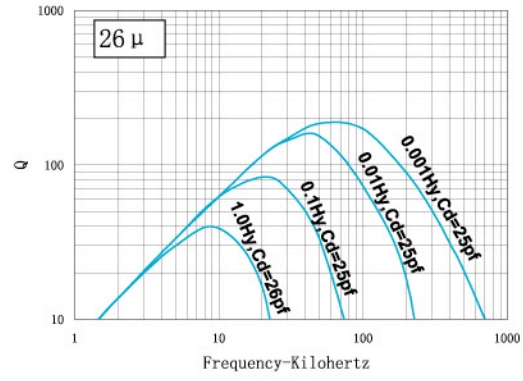
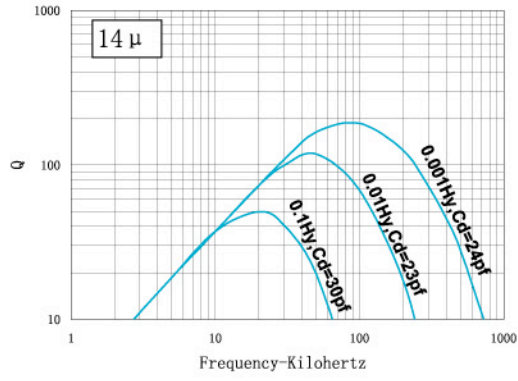
Nominal Permeability	Inductance Factor, mH +/- 8% for 1000 turns	Approximate Ratio of DC Resistance to Inductance for Full Winding (Half of I.D. Remaining), Ω /mH	Part Numbers			
			Molypermalloy		HI-FLUX	SUPER-MSS
14 μ	10	1.5	NEW MP-068014-2	OLD A-187010-2	HF-068014-2	MS-068014-2
26 μ	19	0.80	MP-068026-2	A-188019-2	HF-068026-2	MS-068026-2
60 μ	43	0.35	MP-068060-2	A-189043-2	HF-068060-2	MS-068060-2
75 μ	53	0.29	—	—	—	MS-068075-2
90 μ	64	0.24	—	—	—	MS-068090-2
125 μ	89	0.17	MP-068125-2	A-190089-2	HF-068125-2	MS-068125-2
147 μ	105	0.15	MP-068147-2	A-193105-2	HF-068147-2	*MS-068147-2
160 μ	114	0.13	MP-068160-2	A-559114-2	HF-068160-2	—
173 μ	123	0.12	MP-068173-2	A-194123-2	—	—
205 μ	146	0.10	MP-068205-2	A-205146-2	—	—
250 μ	178	0.086	MP-068250-2	A-370178-2	—	—
300 μ	214	0.071	MP-068300-2	A-392214-2	—	—

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	10	0.00140	9	0.00161	1.01
13	1.800	13	0.00219	10	0.00225	1.12
14	1.600	16	0.00342	12	0.00311	1.23
15	1.400	20	0.00533	14	0.00434	1.36
16	1.250	25	0.00834	16	0.00606	1.51
17	1.120	31	0.01292	18	0.00843	1.67
18	1.000	38	0.0202	20	0.0118	1.84
19	0.900	48	0.0314	23	0.0164	2.04
20	0.800	59	0.0486	26	0.0228	2.25
21	0.710	74	0.0756	29	0.0319	2.50
22	0.630	92	0.1189	33	0.0449	2.77
23	0.560	114	0.1828	37	0.0621	3.06
24	0.500	143	0.2860	41	0.0869	3.39
25	0.450	177	0.4450	47	0.122	3.76
26	0.400	221	0.6980	52	0.171	4.17
27	0.355	274	1.075	58	0.237	4.61
28	0.315	342	1.695	65	0.334	5.12
29	0.280	420	2.57	73	0.458	5.64

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	527	4.10	82	0.651	6.28
31	0.224	656	6.41	90	0.902	6.89
32	0.200	802	9.68	100	1.23	7.57
33	0.180	1005	15.3	111	1.73	8.41
34	0.160	1261	24.3	126	2.47	9.46
35	0.140	1580	38.5	141	3.48	10.5
36	0.125	1970	60.0	156	4.84	11.7
37	0.112	2432	91.2	173	6.59	12.9
38	0.100	3077	146	194	9.31	14.4
39	0.090	4020	248	220	13.8	16.2
40	0.080	4910	385	248	19.7	18.2
41	0.070	6134	589	276	26.8	20.2
42	0.063	7878	947	311	37.7	22.8
43	0.056	9726	1508	343	53.7	25.1
44	0.050	11345	2130	369	69.8	26.9

Remarks: * = New part no.



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

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