

CORNERS:
0.031 Approx.
Radius Bottom,
Chamfer Top.

Dimensions

	Outside Diameter	Inside Diameter	Height
Before Coating Nominal	0.500 in 12.70 mm	0.300 in 7.62 mm	0.187 in 4.75 mm
After Coating (Blue Epoxy)	0.530 in Max. 13.46 mm Max.	0.275 in Min. 6.99 mm Min.	0.217 in Max. 5.51 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)
0.01767 in ² 0.1140 cm ²	1.229 in 3.124 cm	0.02172 in ³ 0.35568 cm ³	0.05940 in ² 0.38320 cm ² 75,625 cmil	MP HF SMSS	3.035g 2.900g 2.300g

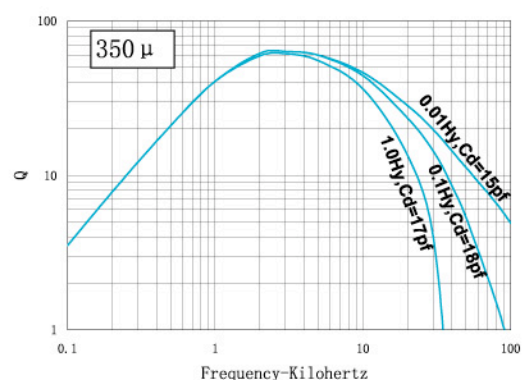
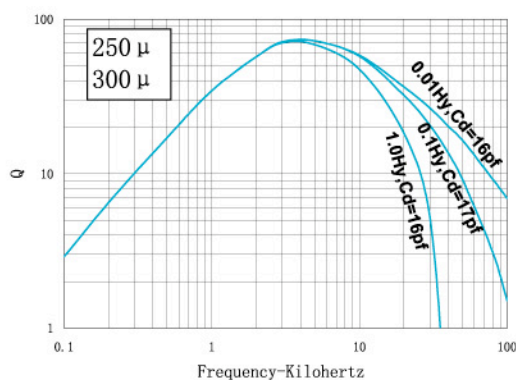
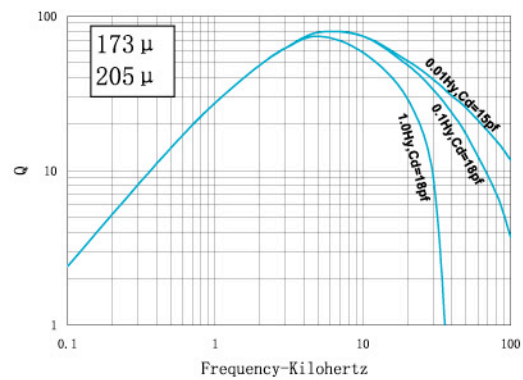
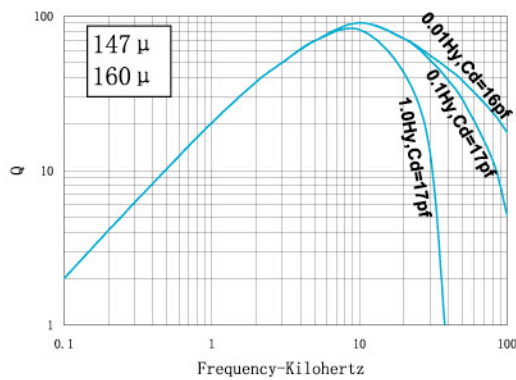
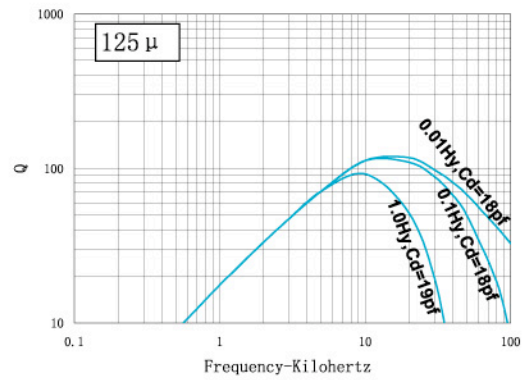
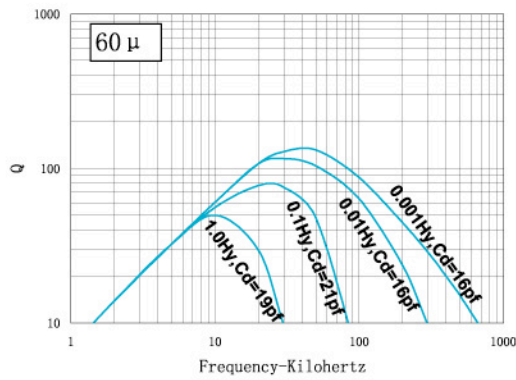
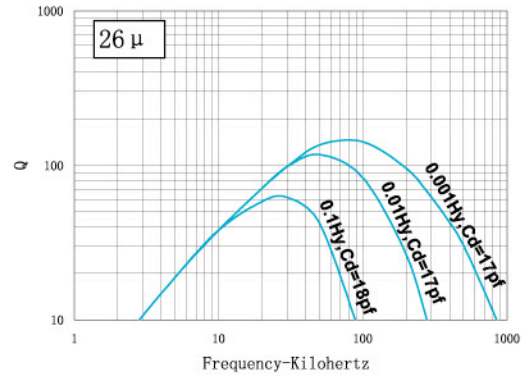
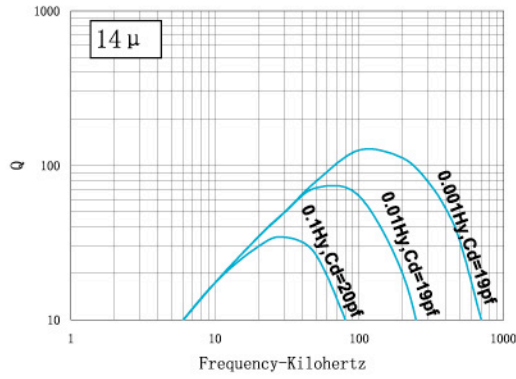
Electrical Specifications

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	6.4	3.1	NEW MP-050014-2	OLD A-053006-2	HF-050014-2	MS-050014-2
26 μ	12	1.6	MP-050026-2	A-052012-2	HF-050026-2	MS-050026-2
60 μ	27	0.70	MP-050060-2	A-051027-2	HF-050060-2	MS-050060-2
75 μ	34	0.56	—	—	—	MS-050075-2
90 μ	40	0.47	—	—	—	MS-050090-2
100 μ	45	0.42	MP-050100-2	A-261045-2	—	—
125 μ	56	0.34	MP-050125-2	A-050056-2	HF-050125-2	MS-050125-2
147 μ	67	0.26	MP-050147-2	A-143067-2	HF-050147-2	*MS-050147-2
160 μ	72	0.25	MP-050160-2	A-301072-2	HF-050160-2	—
173 μ	79	0.24	MP-050173-2	A-172079-2	—	—
205 μ	93	0.20	MP-050205-2	A-204093-2	—	—
250 μ	112	0.17	MP-050250-2	A-368112-2	—	—
300 μ	134	0.14	MP-050300-2	A-390134-2	—	—
350 μ	157	0.12	MP-050350-2	A-412157-2	—	—

Heavy Film Magnet Wire Winding Data (Approximate)

AWG	mm	Full Winding (Half of I.D. Remaining)		Single Layer Winding with 1 inch Leads		l_w , in.	AWG	mm	Full Winding (Half of I.D. Remaining)		Single Layer Winding		
		Turns	R_{dc} , Ω	Turns	R_{dc} , Ω				Turns	R_{dc} , Ω	Turns	R_{dc} , Ω	l_w , in.
15	1.400	12	0.00248	10	0.00271	10	30	0.250	322	1.880	63	0.381	44
16	1.250	15	0.00389	11	0.00376	11	31	0.224	401	2.93	69	0.527	48
17	1.120	19	0.00603	13	0.00520	12	32	0.200	491	4.42	77	0.716	53
18	1.000	23	0.00942	15	0.00722	14	33	0.180	615	6.99	86	1.01	59
19	0.900	29	0.01462	17	0.0100	15	34	0.160	771	11.09	97	1.44	66
20	0.800	36	0.0226	19	0.0139	16	35	0.140	967	17.51	108	2.02	73
21	0.710	45	0.0352	22	0.0193	18	36	0.125	1205	27.3	121	2.80	81
22	0.630	57	0.0552	25	0.0270	20	37	0.112	1488	41.4	134	3.81	89
23	0.560	70	0.0847	28	0.0371	22	38	0.100	1883	66.1	150	5.38	100
24	0.500	87	0.1322	31	0.0518	24	39	0.090	2460	112.4	170	7.93	113
25	0.450	108	0.205	35	0.0723	27	40	0.080	3005	174.7	192	11.3	126
26	0.400	135	0.322	40	0.101	30	41	0.070	3754	267.0	213	15.4	140
27	0.355	167	0.495	45	0.140	33	42	0.063	4822	429.0	240	21.7	157
28	0.315	209	0.779	50	0.197	36	43	0.056	5953	683.0	265	30.9	173
29	0.280	257	1.180	56	0.269	40	44	0.050	6943	962.0	285	40.1	186

Remarks: * = New part no.



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