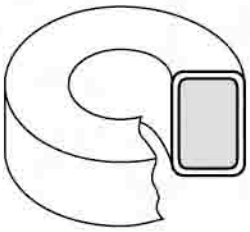


CORNERS:

0.031 Approx. Radius (Typical)

Dimensions

	Outside Diameter	Inside Diameter	Height
Before Coating Nominal	0.900 in 22.86 mm	0.550 in 13.97 mm	0.300 in 7.62 mm
After Coating (Blue Epoxy)	0.930 in Max. 23.62 mm Max.	0.527 in Min. 13.39 mm Min.	0.330 in Max. 8.38 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 125µ Core		Approximate Mean Length of Turn for Full Winding (Half of I.D. Remaining)
0.0513 in² 0.331 cm²	2.233 in 5.671 cm	0.11455 in³ 1.8771 cm³	0.21813 in² 1.40727 cm² 277,729 cmil	MPP HF SMSS	15.900g 15.200g 11.400g	1.05 in 2.67 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
			NEW	OLD		
14µ	9.9	0.80	MP-090014-2	A-062010-2	HF-090014-2	MS-090014-2
26µ	19	0.42	MP-090026-2	A-060019-2	HF-090026-2	MS-090026-2
60µ	43	0.19	MP-090060-2	A-059043-2	HF-090060-2	MS-090060-2
75µ	54	0.15	—	—	—	MS-090075-2
90µ	65	0.12	—	—	—	MS-090090-2
125µ	90	0.089	MP-090125-2	A-310090-2	HF-090125-2	MS-090125-2
147µ	106	0.075	MP-090147-2	A-147106-2	HF-090147-2	*MS-090147-2
160µ	115	0.070	MP-090160-2	A-300115-2	HF-090160-2	—
173µ	124	0.064	MP-090173-2	A-174124-2	—	—
205µ	147	0.054	MP-090205-2	A-208147-2	—	—
250µ	180	0.044	MP-090250-2	A-372180-2	—	—
300µ	216	0.037	MP-090300-2	A-394216-2	—	—

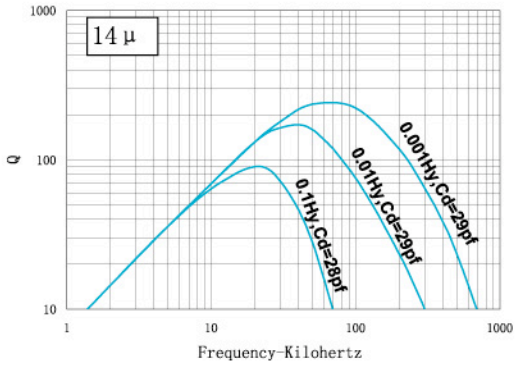
Heavy Film Magnet Wire Winding Data (Approximate)

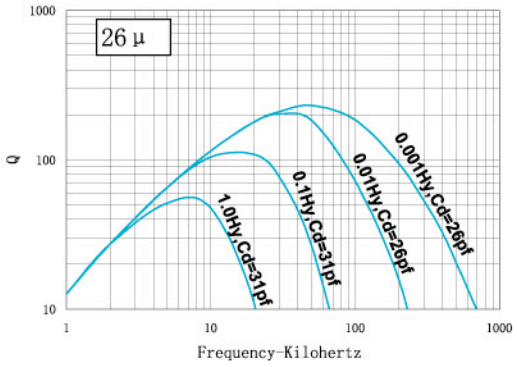
AWG	mm	Full Winding (Half of I.D. Remaining)		Single Layer Winding		
		Turns	R_{dc}, Ω	Turns	R_{dc}, Ω	l_w, ft.
12	2.000	21	0.00355	15	0.00276	1.74
13	1.800	27	0.00552	17	0.00384	1.92
14	1.600	34	0.00859	19	0.00532	2.11
15	1.400	42	0.01335	22	0.00742	2.33
16	1.250	53	0.0208	25	0.0104	2.58
17	1.112	66	0.0322	28	0.0144	2.85
18	1.000	82	0.0503	31	0.0202	3.16
19	0.900	102	0.0782	35	0.0281	3.50
20	0.800	127	0.1211	40	0.0392	3.87
21	0.710	158	0.1884	45	0.0548	4.29
22	0.630	198	0.297	50	0.0771	4.76
23	0.560	246	0.456	56	0.107	5.26
24	0.500	306	0.713	63	0.150	5.83
25	0.450	381	1.110	71	0.210	6.48
26	0.400	475	1.744	79	0.295	7.19
27	0.355	587	2.69	88	0.409	7.95
28	0.315	734	4.24	99	0.577	8.84
29	0.280	901	6.44	109	0.791	9.74

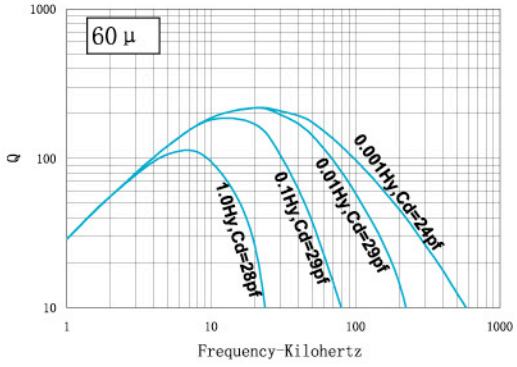
AWG	mm	Full Winding (Half of I.D. Remaining)		Single Layer Winding		
		Turns	R_{dc}, Ω	Turns	R_{dc}, Ω	l_w, ft.
30	0.250	1132	10.28	122	1.12	10.8
31	0.224	1408	16.07	135	1.56	11.9
32	0.200	1723	24.3	149	2.12	13.1
33	0.180	2158	38.4	166	3.00	14.6
34	0.160	2707	61.0	188	4.28	16.4
35	0.140	3391	96.5	210	6.03	18.2
36	0.125	4229	150.6	234	8.39	20.2
37	0.112	5221	229.0	259	11.4	22.3
38	0.100	6608	366.0	289	16.1	24.9
39	0.090	8630	623.0	328	23.9	28.2
40	0.080	10543	968.0	370	34.2	31.7

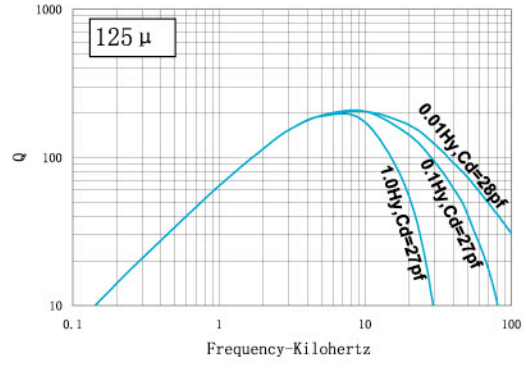
Remarks: *= New part no.

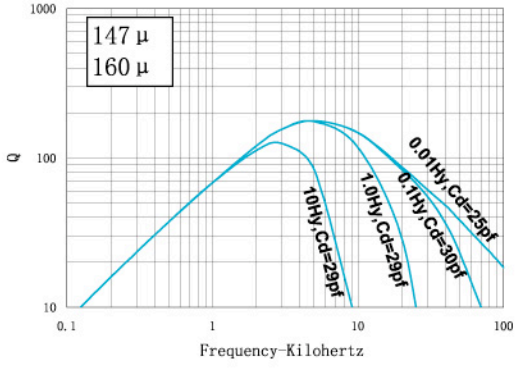
Molypermalloy Q Curves

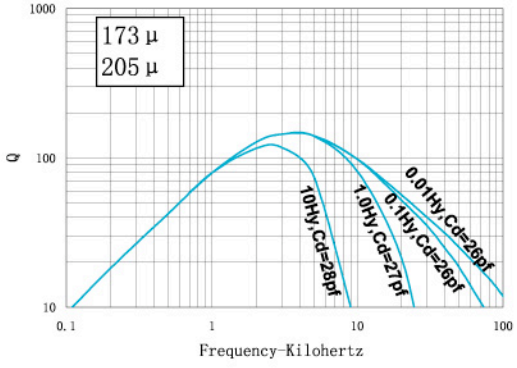


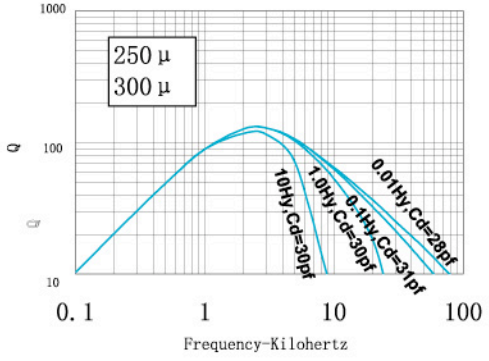












Typical Molypermalloy Q vs. frequency curves at indicated inductance and distributed capacitance.