

**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 125 $\mu$ MPP Core	Approximate Mean Length of Turn for Full Winding (Half of I.D. Remaining)
0.0513 in <sup>2</sup> 0.331 cm <sup>2</sup>	2.233 in 5.671 cm	0.11455 in <sup>3</sup> 1.8771 cm <sup>3</sup>	0.21813 in <sup>2</sup> 1.40727 cm <sup>2</sup> 277,729 cmil	0.033 lbs 15 g	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), $\Omega$ /mH	Part Numbers		
			Molypermalloy	HI-FLUX	SUPER-MSS
14 $\mu$	9.9	0.80	A-062010-2	HF-090014-2	—
26 $\mu$	19	0.42	A-060019-2	HF-090026-2	MS-090026-2
60 $\mu$	43	0.19	A-059043-2	HF-090060-2	MS-090060-2
75 $\mu$	54	0.15	—	—	MS-090075-2
90 $\mu$	65	0.12	—	—	MS-090090-2
125 $\mu$	90	0.089	A-310090-2	HF-090125-2	MS-090125-2
147 $\mu$	106	0.075	A-147106-2	HF-090147-2	—
160 $\mu$	115	0.070	A-300115-2	HF-090160-2	—
173 $\mu$	124	0.064	A-174124-2	—	—
205 $\mu$	147	0.054	A-208147-2	—	—
250 $\mu$	180	0.044	A-372180-2	—	—
300 $\mu$	216	0.037	A-394216-2	—	—

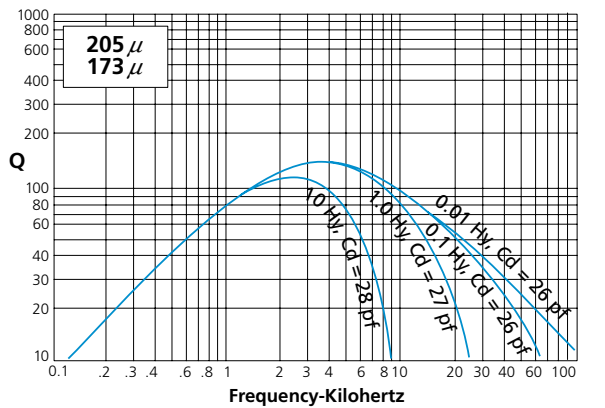
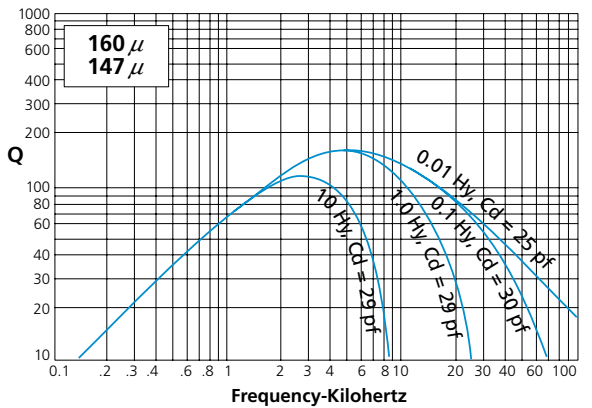
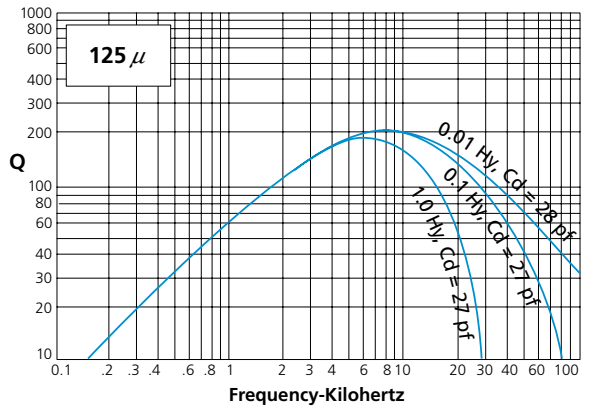
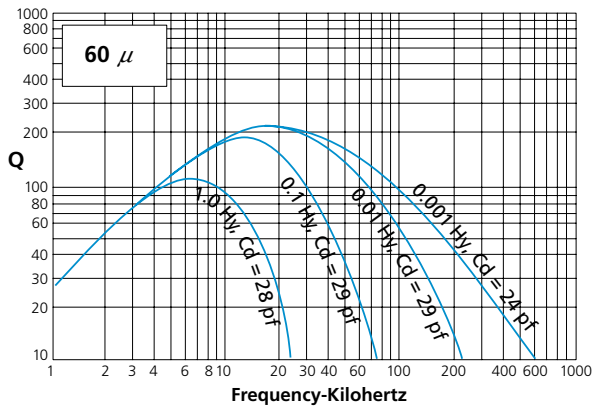
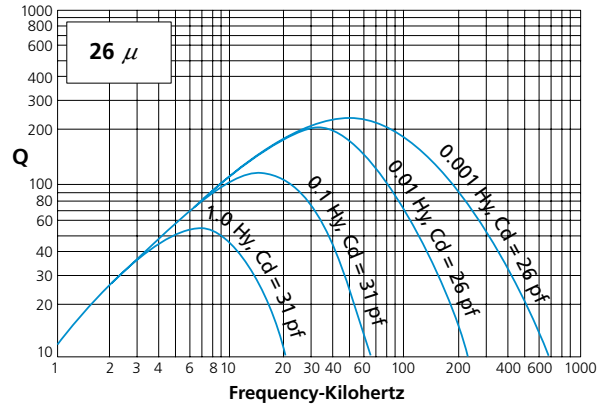
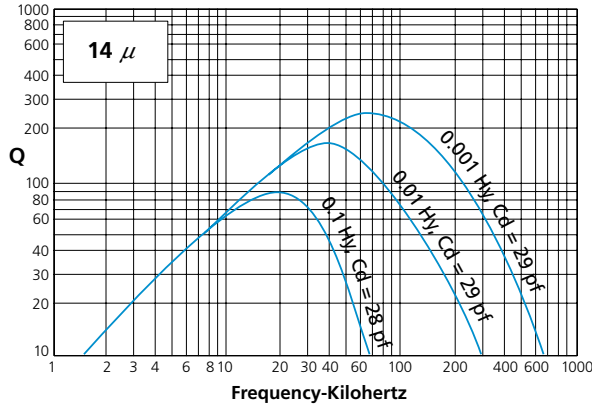
### Heavy Film Magnet Wire Winding Data (Approximate)

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

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

# Molypermalloy Q Curves

**o.d. 0.900**  
**i.d. 0.550/ht.0.300**



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