

Sheet1

Number windings	Diameter of coil (cm)	Length of coil (cm)	
	100	41	5.3
	100	41	5.3
	200	41	10.6
	200	41	10.6
	300	41	16
	300	41	16
	75	26	16
	75	26	16
	300	26	16
	300	26	16
	300	26	16
	300	33	16
	300	41	16

Sheet1

Invisible shaft (length in cm)	Calculated distance from center (%)
2.5	2.12
2.5	2.12
5.035	2.10526315789474
5.035	2.10526315789474
7.6	2.10526315789474
7.6	2.10526315789474
7.6	2.10526315789474
7.6	2.10526315789474
7.6	2.10526315789474
7.6	2.10526315789474
7.6	2.10526315789474
7.6	2.10526315789474
7.6	2.10526315789474

Sheet1

Calculated distance from center (cm)	Voltage (V)	Current (A)
0.15	0.585	0.3
0.15	0.589	0.3
0.265	1.14	0.4
0.265	1.141	0.45
0.4	1.525	0.45
0.4	1.526	0.45
0.4	0.075	0.04
0.4	0.0735	0.08
0.4	1.091	0.38
0.4	1.19	0.39
0.4	1.236	0.524
0.4	1.542	0.524
0.4	1.907	0.524

Sheet1

Electromagnetic field strength (mT)	Resistance (Ω)	Calculated resistance (Ω)
0.944	1.1	1.95
0.907	1.1	1.96333333333333
1.11	2.2	2.85
1.12	2.2	2.53555555555556
1.02	3.5	3.38888888888889
1.03	3.5	3.39111111111111
0.334	0.15	1.875
0.345	0.15	0.91875
1.18	2.2	2.87105263157895
1.19	2.2	3.05128205128205
1.25	2.2	2.3587786259542
1.25	2.8	2.94274809160305
1.23	3.5	3.63931297709924

Deviation resistance (% of expected value)

-77.2727272727273
-78.4848484848485
-29.5454545454545
-15.2525252525252
3.17460317460319
3.11111111111112

-1150

-512.5

-30.5023923444976

-38.6946386946387

-7.21721027064537

-5.09814612868049

-3.9803707742639