

### Coil Wire Length –Back of the Envelope Estimate

Back-of Envelope-Estimate is determined by using the given inner diameter of 1.25 inches

Estimating the thickness of the coil to be 0.375 in.

Estimating the average diameter ( $1.25 + 0.375/2 = 1.4375$  in)

Calculated the circumference x 200 -Length of wire

The data is the same for all coils, A,B, C, D

