Air Cored Inductor Calculator

This calculator is useful when making antenna matching units, low pass filters, crystal sets, antenna traps, resonant circuits or anywhere where an air cored single layer inductor is required.

Diameter and length of inductor are entered in millimetres along with the number of turns. Frequency can be entered to find the Q of the inductor at a specific frequency, but is not required. Inductance values are calculated to 3 decimal places and are given in nH, µH, mH and even to 5 decimal places, H! An example of a T-match inductor for 1.8MHz is already inputted, click calculate, or clear fields to enter your own values.

Input coil diameter, length & number of turns			
Coil Diameter	4.45	mm	
Coil length	6.6	mm	
Number of turns	7	t	
			Calculate
Frequency (Not required, but used for calculating Q)	1.850	MHz	Clear Fields

Calculated inductance, Q and wire length		
Nano H	111.413	nH
Micro H	0.111	µH
Milli H	0.000	mH
Henry	0.00000	H
Inductor Q	35	Q
Wire Length	0.10	m