Micro System Voltage	3,30	VCC
Max Primary current (RMS)	1,00	A
Primary peak-current	1,41	A
CT - Turns Primair	2	
CT - Turns Secondair	2000	
Secondary peak-current	0,0014	A
Burden Resistor	1167	Ω

Max primary current to measure

Primary peak-current = RMS current × √2

$$\text{Ratio} \quad \frac{1}{1000}$$

Secondary peak-current = Primary peak-current / no. of turns

Formula: burden_resistor = (system_voltage / 2.0) / ((I_RMS * 1.414) / ct_turns_ratio)

Coil diameter	22,00	mm
Coil Radius *r*	11,00	mm
Coil length *l*	25,4	mm
L	53981	uH

The formula for calculating the inductance of an air-core single-layer solenoid is:

$$L = \frac{r^2 N^2}{9r + 10l}\ \mu H$$

((MACHT(E14;2) * MACHT(E9;2)) / (9*E14 + 10*E15)) / 25,4

Coil diameter	22,00	mm
Coil Radius *r*	11,00	mm
Winding Depth	3	mm
Coil length *l*	25,4	mm
L	46963	uH

The formula for calculating the inductance of an air-core multi-layer solenoid is:

$$L = \frac{0.8(r^2 N^2)}{6r + 9l + 10d}\ \mu H$$

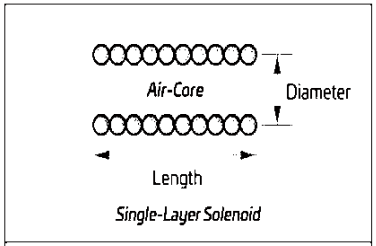
((0,8 * (MACHT(E19;2) * MACHT(E9;2))) / ((6*E19) + (9*E21) + (10*E20))) / 25,4

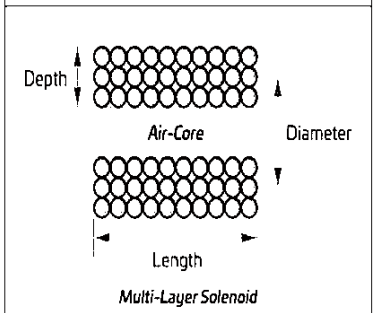
Coil diameter	22,00	mm
Coil Radius *r*	11,00	mm
Winding Depth	3	mm
L	157480	uH

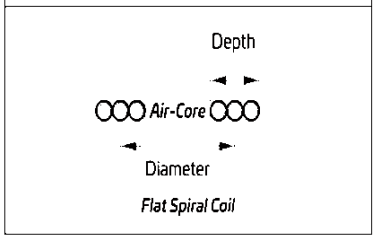
The formula for calculating the inductance of an air-core flat spiral coil is:

$$L = \frac{r^2 N^2}{8r + 11d}\ \mu H$$

((MACHT(E25;2) * MACHT(E9;2)) / (8*E25 + 11*E27)) / 25,4







Where

N = Number of turns

r = Coil radius in inches

l = Coil length in inches

d = Winding depth in inches

L = Inductance in microhenrys (μH)