## NFC ATTINY ATECC

Monday, March 2, 2020

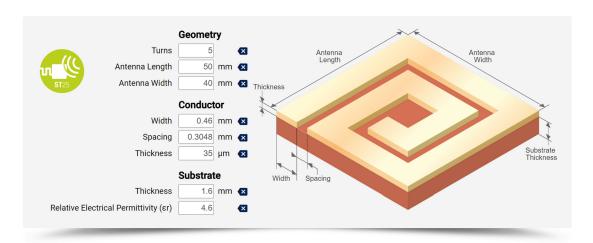
1:45 PM

Calculation of loop inductance, chip capacitance is 50pF, frequency is 13.56MHz (datasheet recommends designing for ~14.5MHz)

$$Q = \frac{R_{eq}}{2\pi f L}$$

$$f = \frac{1}{2\pi\sqrt{LC}}$$

$$L = \frac{25}{919368\pi^2} = 2.755\text{uH}$$



## **Antenna Results**

Segmentation Mode: Vertical

Segments: 20

Equivalent Inductance: 2.75 µH

@13.56 Mhz

Trace = 18mil Space = 12mil

Thickness = 1oz copper