

# Integrated PCB NFC Antenna

## Rev 1.0

The Loops PCB Near Field Communication (NFC) antenna is embedded into the Loops game PCB board. It's designed to read NTAG 215 NFC tags at a distance of about 10 mm, and manufactured according to NXP "Class 6 NTAG antenna recommended spec (ref. AN11276 NTAG Antenna Design Guide Rev. 1.8).

## Electrical Specifications

Frequency	13.56Mhz
Impedance [ $\Omega$ ]	50
Inductance [ $\mu$ H]	2.13
Resistance [ $\Omega$ ]	2.05
Q-Factor	88.52

## Mechanical Specifications

Size [mm]	20 x 25
Coil Laps	7
Coil Gap [mm]	0.15
Wire Width [mm]	0.254
Operational Temperature [c]	-40 to 80
Connector Type	N/A (integrated)
Antenna Type	Loop Antenna



FIGURE 1 – LOOPS PBC ANTENNA

## Drawing:

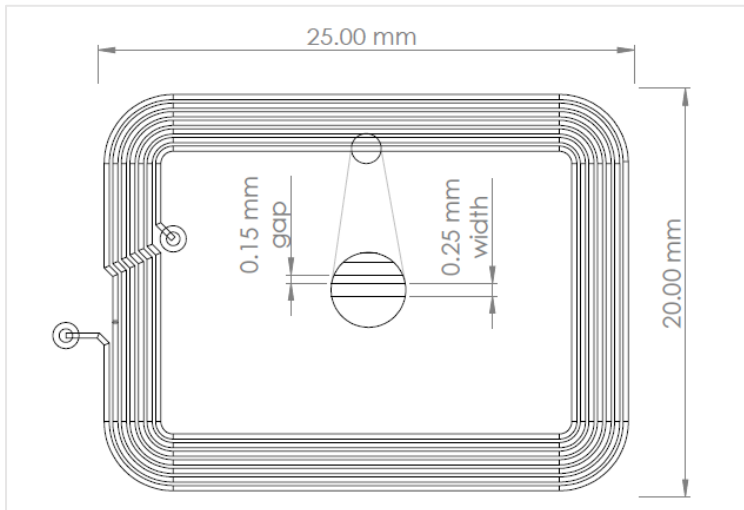


FIGURE 2 - LOOPS ANTENNA DRAWING

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