

Name:

MEW

Date:

2023.07.09

RFID EXPERIMENT "test 2"

TAG LAYOUT ~100MM SPACING

STICKER: 25MM
ANTENNA: 21MM

NTAG213

5.11 WINDINGS

4 INCH
EQUILATERAL TRIANGLE
AREA $A = \frac{\sqrt{3}}{4} S^2$ 12 INCH SQUARE
 $A = (12 \times 25.4)^2$
 $= 92903 \text{ mm}^2$

$$\frac{12''}{4''} = 20.8$$

4 INCH TRIANGLE

~~$$A = \frac{\sqrt{3}}{4} (100 \text{ mm})^2$$

 4330 mm^2~~

$$4'' \cdot \frac{\sqrt{3}}{4} (101.6 \text{ mm})^2 = 4469.8 \text{ mm}^2$$

~~$$12'' \cdot A = \frac{\sqrt{3}}{4} (304.8 \text{ mm})^2$$

 $= 40228 \text{ mm}^2$~~

~~$$12'' \cdot \text{AREA} = 9 \text{ PER SQ FT}$$~~

TAG DENSITY:
20.8
PER SQ FT

16 POINTS

4" = ~100MM