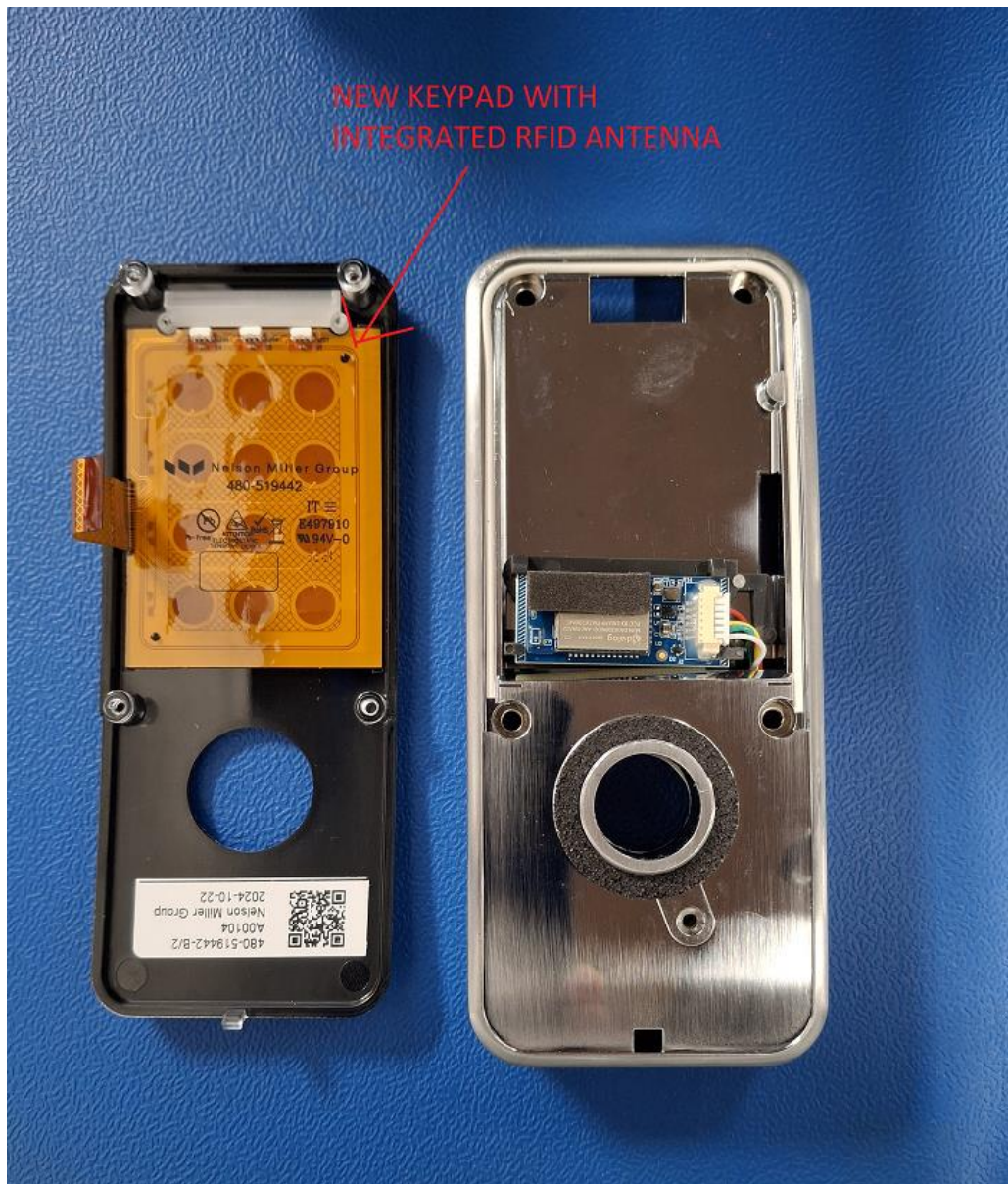


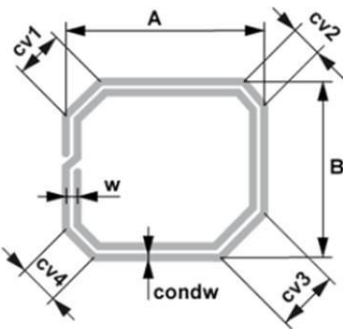
Q8SSAFFIREEVOM antenna photo



Saffire EVO LZ M antenna impedance design.

Step 1.2: Dimension Rectangle Geometry

1. Specify the antenna geometry:



Please refer to the document Reader Antenna Design LA-23-950 for shielding dimensions.

Number of layers with identical windings, connected in series

$N_L =$

[1 ... 4]

Number of windings per layer

$N =$

[2 ... 8]

Length

$A =$

[10 mm ... 120 mm]

Width

$B =$

[10 mm ... 120 mm]

Edge chamfers (45° each)

$Cv1 =$

$Cv2 =$

$Cv3 =$

$Cv4 =$

[0 mm ... 85 mm]

Winding distance

$w =$

[condw ... min. (A,B)/18]

PCB conductor width

$condw =$

[0.1 mm ... min. (2 mm, A/25, B/25)]

Calculate

Antenna Inductance L

With the specified antenna geometry the following inductance will result:

$L = 713.21 \text{ nH}$