

Document status: – release –

## 1. Version history

Version	Comments	Date
1.00	First release	29.11.2018
1.10	Added FCC-ID and approval date	28.02.2019

## 2. Description of Modifications

The differences between the RFH630 and the RFH630S05 only regarding the antenna unit. The base system unit it the same for all variants of the product.

The FCC ID of the RFH630 Device is WRMRFH630. The Device was approved on 09/21/2012.

The internal antenna of the RFH630 is a rectangular PCB loop antenna with a size of approximately 120 mm x 70 mm and two windings according to Figure 1. The matching of the Antenna is achieved with two variable capacitors one in series to the resonant circuit and one in parallel. To obtain a higher bandwidth, there is a load resistor in parallel to the resonant circuit.

The antenna PCB of the RFH630 also contains an RGB LED with a I2C driver circuit.

In order to read special customer specific RFID transponders it was necessary to change the antenna geometry.

The RFH630-1102101S05 has a round PCB loop antenna with a diameter of 50mm and five windings according to Figure 2. The matching circuit consists of two variable capacitors one in series to the resonant circuit and one in parallel. There is also a load resistor to obtain higher bandwidth.

The antenna PCB of the RFH630-1102101S05 has no addition circuit components like LEDs etc..

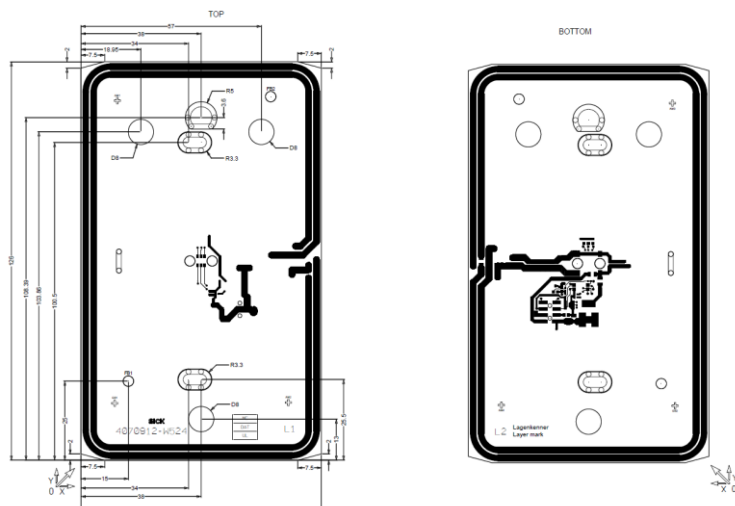


Figure 1: Antenna Unit of the RFH630

