

## **Calculation: RF-Exposure for a 433.92 MHz transmitter**

Type identification: **Passive entry car key MS6**

In accordance to **CFR Part 47, §1.1307 (b)(3)(i)(A)** and **RSS-102 Issue 5**

As documented in clause 5.4.2 of the test report F222097E2, the above stated device transmits with a maximum field strength of 79.5 dB $\mu$ V/m at 3 m distance. According to ANSI C63.10 Annex G G.2 this field strength is converted to a EIRP value.

79.5 dB $\mu$ V/m at 3 m corresponds to an EIRP of 0.027 mW.

Limit for RF exposure exemption according to

- CFR Part 47, §1.1307 (b)(3)(i)(A) / KDB 447498 D04: 1 mW
- RSS-102 Issue 5, Table 1, separation distance  $\leq$ 5 mm: 71 mW

The value of the radiated power is below the limit of CFR Part 47, §1.1307 (b)(3)(i)(A) and below the limit of RSS-102 Issue 5, Table 1 for a separation distance of  $\leq$ 5 mm. Therefore the device could be regarded as exempted RF device.