

RF Exposure Evaluation

The Model Number: 200-0013-01 is a Wireless device used in a mobile application, at least 20 cm away from any body part of the user or nearby persons.

To comply with FCC requirements of RF exposure, the Radiated Power Density must be below the Maximum Permissible Exposure (MPE) set forth in FCC section 2.1091.

The maximum average conducted power (without considering Duty Cycle) is 0.6 W, the highest Duty Cycle is 0.2, and the maximum antenna gain is 2.5 dBi (1.8).

Therefore, the EIRP is 0.22 W.

The Power Density (in W/m^2) can be calculated using the formula:

$$S = \text{EIRP} / 4\pi D^2$$

At the distance $D = 0.2 \text{ m}$ from the antenna $S = 0.44 \text{ W}/\text{m}^2$

According to FCC sec. 1.1310 for 900 MHz the MPE Limit is $0.6 \text{ W}/\text{m}^2$ for **General Population/Uncontrolled Exposure**.

So, the Model Number: 200-0013-01 complies with the FCC requirements of RF Exposure.