HERMON LABORATORIES

Environmental evaluation and exposure limit according to FCC CFR 47part 1, §1.1307, §1.1310

The Remote Control are classified as a mobile device. The Remote Control includes transmitter operating according to FCC part 15 subpart C section 15.247 (FHSS)

The FCC limit for power density for general population/uncontrolled exposure is f/1500 mW/cm^2 for 300 – 1500 MHz frequency range:

$$P = 902.25/1500 = 0.6\ mW/cm^2$$

The power density **$P\ (mW/cm^2) = P_T / 4\pi r^2$**

P_T is the transmitted power, which is equal to the peak transmitter output power 1.84 dBm plus maximum antenna gain 0 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 22.39\ dBm + 0\ dBi = 22.39\ dBm = 173.38\ mW.$$

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

$$\text{Compliance with FCC limit: } 173.38\ mW / 4\pi\ (20\ cm)^2 = 0.0345\ mW/cm^2 << 0.6\ mW/cm^2$$

General public cannot be exposed to dangerous RF level.

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