

Section 10. Maximum Permissible Exposure**MPE estimate is given per 2.1091 of FCC Rules:****Calculation Equation:**

$$d = 0.282 \times \frac{10^{\frac{P+G}{20}}}{\sqrt{S}}$$

Where, P--max. Output Power, G—Antenna Gain and S—Power Density Factor from §1.1310.

From §1.1310 Table 1 (B), for Public S = 1.0 mW/cm², for Professional, S = 5.0 mW/cm²

Plug all three items into the equation, and yields,

Power Density MPE Limit (mW/ cm ²)	Max. Output Power (dBm)	Max. Antenna Gain (dBi)	MPE Distance (cm)
1.0	49.68	17.5	644.5

NOTE:

For mobile or fixed location transmitters, the minimum separation distance is 20 cm, even if calculations indicate that the MPE distance would be less.