

RF Exposure Calculation (MPE distances)

Utilitcom 2.4 GHz Direct Sequence Radio

FCC ID: LFO-WR2411

RF Hazard Distance Calculation

mW/cm2 from Table1: **1.00**

Max RF Power P, dBm	TX Antenna G, dBi	MPE Safe Distance, cm
23.0	9.0	11.2
23.0	18.0	31.7
23.0	24.0	63.2

Basis of Calculations:

$$E^2/3770 = S, \text{ mW/cm}^2$$

$$E, \text{ V/m} = (P_{\text{watts}} \cdot G_{\text{gain}} \cdot 30)^{0.5} / d, \text{ meters}$$

$$d = ((P_{\text{watts}} \cdot G \cdot 30) / 3770 \cdot S)^{0.5}$$

NOTE: For mobile or fixed location transmitters, minimum separation distance is 2 meter, even if calculations indicate MPE distance is less