

25-Sep-01

FCC ID: LKT-IF-24

**RF Hazard Distance
Calculation**

mW/cm2 from Table1: 1.00

Max RF Power P, dBm	TX Antenna G, dBi	MPE Safe Distance, cm
12.0	23.5	16.8
18.0	18.0	17.8
19.0	17.0	17.8
20.0	15.5	16.8
26.0	7.5	13.3

Basis of Calculations:

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

$$E, \text{ V/m} = (P_{\text{watts}} * G_{\text{gain}} * 30)^{.5} / d, \text{ meters}$$

$$d = ((P_{\text{watts}} * G_{\text{gain}}) / (3770 * S))^{0.5}$$

$$P_{\text{watts}} * G_{\text{gain}} = 10^{(P_{\text{dBm}} - 30 + G_{\text{dBi}}) / 10}$$

NOTE: To meet FCC requirements, minimum separation distance from all persons is 2.0m, even if calculations indicated MPE distance is less