

MPE Distance Calculation

FCC ID: LKT-SUR-24

Model: SU-M

Antenna: 5 dBi Omni (mobile)

RF Hazard Distance Calculation

mW/cm2 from Table1:

1.00

Max RF Power P, dBm	TX Antenna G, dBi	MPE Safe Distance, cm
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27.3

5.0

11.6

Basis of Calculations:

$E^2/3770 = S$, mW/cm2

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

$d = ((P_{\text{watts}} * G * 30) / 3770 * S)^{.5}$

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

NOTE: For mobile or fixed location transmitters, minimum separation distance is **20 cm**, even if calculations indicate MPE distance is less