

RF Hazard Distance Calculation

mW/cm² from Table1:

1.00

Max RF Power
P, dBm

TX Antenna
G, dBi

MPE
Safe Distance, cm

13.0

0.0

1.3

Basis of Calculations:

$E^2/3770 = S$, mW/cm²

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

$d = ((P_{\text{watts}} \cdot G \cdot 30) / (3770 \cdot S))^{0.5}$ $P_{\text{watts}} \cdot G_{\text{gain}} = 10^{(P_{\text{dBm}} - 30 + G_{\text{dBi}}) / 10}$