



### Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 1.5 (dBm) \*

Maximum peak output power at antenna input terminal: 1.4 (mW)

Antenna gain(maximum): 3 (dBi)

Maximum antenna gain: 2.00 (numeric)

Time Averaging: 100 (%)

Prediction distance: 20 (cm)

Prediction frequency: 2450 (MHz)

FCC MPE limit for uncontrolled exposure at prediction frequency: 1.000 (mW/cm<sup>2</sup>)

IC MPE limit for uncontrolled exposure at prediction frequency: 17.18 (W/m<sup>2</sup>)

Power density at prediction frequency: 0.000556 (mW/cm<sup>2</sup>)

This equates to: 0.005556 (W/m<sup>2</sup>)