



### 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 an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 9.30 (dBm) \*

Maximum peak output power at antenna input terminal: 8.51 (mW)

Antenna gain(maximum): -5.5 (dBi) \*

Maximum antenna gain: 0.28 (numeric)

Time Averaging: 100 (%) \*

Prediction distance: 20 (cm) \*

Prediction frequency: 2440 (MHz) \*

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

Power density at prediction frequency: 0.00048 (mW/cm<sup>2</sup>)

This equates to: 0.0048 W/m<sup>2</sup>