

## 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: 26.00 (dBm)

Maximum peak output power at antenna input terminal: 398.1071706 (mW)

Antenna gain(typical): 10.1 (dBi)

Maximum antenna gain: 10.23292992 (numeric)

Prediction distance: 30 (cm)

Prediction frequency: 835-849 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.6 (mW/cm<sup>2</sup>)

Power density at prediction frequency: 0.360203 (mW/cm<sup>2</sup>)

Maximum allowable antenna gain: 12.31603624 (dBi)

Margin of Compliance: 2.216036238