

### 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

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 12.26 (dBm)

Maximum peak output power at antenna input terminal: 16.8 (mW)

Antenna gain(typical): -2.1 (dBi)

Maximum antenna gain: 0.617 (numeric)

Prediction distance: 20 (cm)

Source Based Time Average Duty Cycle: 100 (%)

Prediction frequency: 2452 (MHz)

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

Power density at prediction frequency: 0.00206 (mW/cm^2)

Power density at prediction frequency: 0.0206 (W/m^2)

Margin of Compliance: 26.85 (dB)