

### 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: **13.40** (dBm)

Maximum peak output power at antenna input terminal: **21.9** (mW)

Antenna gain(typical): **-5.1** (dBi)

Maximum antenna gain: **0.309** (numeric)

Prediction distance: **20** (cm)

Source Based Time Average Duty Cycle: **100** (%)

Prediction frequency: **5200** (MHz)

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

Power density at prediction frequency: **0.00135** (mW/cm^2)

Power density at prediction frequency: **0.0135** (W/m^2)

Margin of Compliance: **28.71** (dB)