## 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 the antenna terminal:

Maximum peak output power at the antenna terminal:

Antenna gain(typical):

Maximum antenna gain:

Prediction distance:

18.65 (dBm)

73.28245331 (mW)

45 (dBi)

31622.7766 (numeric)

Prediction distance:

430 (cm)

Prediction distance: 430 (cm)
Prediction frequency: 79500 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: \_\_\_\_\_\_\_1 (mW/cm^2)

Power density at prediction frequency: 0.997363 (mW/cm^2)