

### **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: 28.27 (dBm)

Maximum peak output power at the antenna terminal: 670.6562867 (mW)

Antenna gain(typical): 6 (dBi)

Maximum antenna gain: 3.981071706 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 915 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.61 (mW/cm^2)

**Power density** at prediction frequency: 0.531166 (mW/cm^2)

Maximum allowable antenna gain: 6.600996904 (dBi)