

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

S = power density where:

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:30.00 (dBm)Maximum peak output power at antenna input terminal:1000 (mW)

Antenna gain(maximum): 12 (dBi)

Maximum antenna gain: 15.84893192 (numeric)

Time Averaging: 100 (%)

Prediction distance: 50 (cm) Prediction frequency: 851 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.567 (mW/cm^2)

Power density at prediction frequency: 0.504487 (mW/cm^2)

> Margin of compliance: -0.5 (dB)

> > This equates to: 5.044871717 W/m^2