

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: 20.95 (dBm)

Maximum peak output power at antenna input terminal: 124.5 (mW)

Antenna gain(typical): 30 (dBi)

Maximum antenna gain: 1000.000 (numeric)

Prediction distance: 110 (cm)

Source Based Time Average Duty Cycle: 100 (%)

Prediction frequency: 5745 (MHz)

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

Power density at prediction frequency: 0.81847 (mW/cm^2)

Power density at prediction frequency: 8.1847 (W/m^2)

Margin of Compliance: 0.87 (dB)