



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 antenna input terminal: 10.0 (dBm) *

Maximum peak output power at antenna input terminal: 10.0 (mW)

Antenna gain(maximum): 48 (dBi) *

Maximum antenna gain: 63095.73 (numeric)

Time Averaging: 50 (%) *

Prediction distance: 200 (cm) *

Prediction frequency: 80000 (MHz) *

MPE limit for uncontrolled exposure at prediction frequency: 1.000 (mW/cm²)

Power density at prediction frequency: 0.628 (mW/cm²)

This equates to: 6.28 W/m²