

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: 19.35 (dBm)

Maximum peak output power at antenna input terminal: 86.10 (mW)

Antenna gain(typical): 4.4 (dBi)

Maximum antenna gain: 2.754 (numeric)

Prediction distance: 20 (cm)

Source Based Time Average Duty Cycle: 100 (%)

Prediction frequency: 2437 (MHz)

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

Power density at prediction frequency: 0.0472 (mW/cm²)

Power density at prediction frequency: 0.472 (W/m²)

Margin of Compliance: -13.26 (dB)