

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: 17.00 (dBm)
Maximum peak output power at antenna input terminal: 47.5 (mW)
Antenna gain(typical): 3 (dBi)
Maximum antenna gain: 1.995262 (numeric)
Prediction distance: 5 (cm)
Prediction frequency: 2400 (MHz)
MPE limit for uncontrolled exposure at prediction frequency: 1.0 (mW/cm^2)
Power density at prediction frequency: 0.301678 (mW/cm^2)
Maximum allowable antenna gain: 8.204563 (dBi)