

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 device output terminal: 25.85 (dBm)

Cable and Jumper loss 0.0 (dB)

Maximum peak output power at antenna input terminal: 25.85 (dBm)

Maximum peak output power at antenna input terminal: 384.591782 (mW)

Single Antenna gain(typical): 11.5 (dBi)

Number of Antennae 1 (uncorelated antennas)

Total Antenna gain(typical): 11.5 (dBi)

Maximum antenna gain: 14.12537545 (numeric)

Prediction distance: 30 (cm)

Prediction frequency: 5785 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm^2)

Power density at prediction frequency: 0.480339 (mW/cm^2)

4.803388 (W/m^2)

Tx On time: 1.000000

Tx period time: 1.000000

Average Factor: 100.000000

Average Power density at prediction frequency: 4.803388 (W/m^2)

Maximum allowable antenna gain: 14.68452373 (dBi)

Margin of Compliance: 3.184523735 dB

