

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: 19.80 (dBm)
Cable and Jumper loss 0.0 (dB)

Maximum peak output power at antenna input terminal: 19.80 (dBm)

Maximum peak output power at antenna input terminal: 95.4992586 (mW)

Single Antenna gain(typical): 11 (dBi)

Number of Antennae 1

Total Antenna gain(typical): 11 (dBi)

Maximum antenna gain: 12.58925412 (numeric)

Prediction distance: 40 (cm)

Prediction frequency: 473 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.315333333 (mW/cm^2)

Power density at prediction frequency: 0.059796 (mW/cm^2)
0.597957 (W/m^2)

Tx On time: 1.000000

Tx period time: 1.000000

Average Factor: 100.000000

Average Power density at prediction frequency: 0.597957 (W/m^2)

Maximum allowable antenna gain: 18.22099728 (dBi)

Margin of Compliance: 7.220997284 dB

