

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: 50.68 dBm

Cable and Jumper loss: 0.0 dB

Maximum peak output power at antenna input terminal: 50.68 dBm

116949.9391 mW

Single Antenna gain (typical): 18.46 dBi

Number of Antennae: 1

Total Antenna gain (typical): 18.46 dBi

70.14552984 (numeric)

Prediction distance: 1650 cm

Prediction frequency: 750 MHz

MPE limit for uncontrolled exposure at prediction frequency: 0.241519592 mW/cm²

Power density at prediction frequency: 0.239785 mW/cm²

2.397851 W/m²

Tx On time: 1.000000 ms

Tx period time: 1.000000 ms

Average Factor: 100.000000 %

Average Power density at prediction frequency: 2.397851 W/m²

Maximum allowable antenna gain: 18.49130118 dBi

Margin of Compliance: 0.031301183 dB