

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: 27.00 dBm

Cable and Jumper loss: 0.0 dB

Maximum peak output power at antenna input terminal: 27.00 dBm

501.1872336 mW

Single Antenna gain (typical): 5 dBi Number of Antennae:

Total Antenna gain (typical): 5 dBi

> 3.16227766 (numeric) Prediction distance: 20 cm

Prediction frequency: 915.25 MHz

0.610166667 mW/cm² MPE limit for uncontrolled exposure at prediction frequency:

> 0.315304 mW/cm² Power density at prediction frequency:

> > 3.153045 W/m² Tx On time: 1.000000 ms

Tx period time: 1.000000 ms Average Factor: 100.000000 %

3.153045 W/m² Average Power density at prediction frequency:

Maximum allowable antenna gain: 7.867183338 dBi

Margin of Compliance: 2.867183338 dB