

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: 44.08 dBm

Cable and Jumper loss: 0.0 dB

Maximum peak output power at antenna input terminal: 44.08 dBm

25585.85887 mW

Single Antenna gain (typical): 10.15 dBi

Number of Antennae: 1

Total Antenna gain (typical): 10.15 dBi

10.35142167 (numeric)

Prediction distance: 350 cm

Prediction frequency: 150 MHz

MPE limit for uncontrolled exposure at prediction frequency: 0.2 mW/cm²

Power density at prediction frequency: 0.172050 mW/cm²

1.720498 W/m²

Tx On time: 1.000000 ms

Tx period time: 1.000000 ms

Average Factor: 100.000000 %

Average Power density at prediction frequency: 1.720498 W/m²

Maximum allowable antenna gain: 10.80375948 dBi

Margin of Compliance: 0.653759484 dB