

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: 32.71 dBm

Cable and Jumper loss: 0.0 dB

Maximum peak output power at antenna input terminal: 32.71 dBm

1866.379691 mW

Single Antenna gain (typical): 4.5 dBi

Number of Antennae: 1

Total Antenna gain (typical): 4.5 dBi
2.818382931 (numeric)

Prediction distance: 25 cm

Prediction frequency: 1660 MHz

MPE limit for uncontrolled exposure at prediction frequency: _______1 mW/cm²

Power density at prediction frequency: 0.669746 mW/cm²

6.697460 W/m²

Tx On time: 1.000000 ms
Tx period time: 1.000000 ms

Average Factor: 100.000000 %

Average Power density at prediction frequency: 6.697460 W/m²

Maximum allowable antenna gain: 6.240898814 dBi

Margin of Compliance: 1.740898814 dB