

## MPE

### 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 antenna input terminal: ( 10.44 ) dBm

Maximum peak output power at antenna input terminal: ( 11.0662 ) mW

Antenna gain(typical): 5.5 (dBi)

Maximum antenna gain: ( 3.548 ) numeric

Time Averaging: 100 (%)

Prediction distance: 20 (cm)

Prediction frequency: ( 2412 ) MHz

MPE limit for uncontrolled exposure at prediction frequency: **1** (mW/cm<sup>2</sup>)

Power density at prediction frequency: ( 0.0078 ) mW/cm<sup>2</sup>

Margin of compliance: ( 21.08 ) dB