**Prediction of MPE limit at a given distance**

18dBi Antenna

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: | 16.00 | (dBm) |
| Maximum peak output power at antenna input terminal: | 39.81071706 | (mW) |
| Antenna gain(typical): | 18 | (dBi) |
| Maximum antenna gain: | 63.09573445 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5700 | (MHz) |
| MPE limit for uncontrolled exposure at prediction frequency: | 1 | (mW/cm^2) |
| Power density at prediction frequency: | 0.499724 | (mW/cm^2) |
| Maximum allowable antenna gain: | 21.01269855 | (dBi) |
| Margin of Compliance: | 3.012698554 | |