## 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: | 15.62 | (dBm) |
| Maximum peak output power at antenna input terminal: | 36.47539469 | (mW) |
| Antenna gain(typical): | 0 | (dBi) |
| Maximum antenna gain: | 1 | (numeric) |
| Time Averaging: | 100 | (%) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 926.24 | (MHz) |
| MPE limit for uncontrolled exposure at prediction frequency: | 0.6 | (mW/cm^2) |
| | | |
| Power density at prediction frequency: | 0.0072565492082 | (mW/cm^2) |
| | | |
| Margin of compliance: | -19.2 | (dB) |