**Prediction of MPE Limit**

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*Equation from page 18*

$$S = \frac{PG}{4\pi R^2}$$

**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

$$R = \sqrt{\frac{PG}{4\pi S}}$$

**R=** distance to the center of radiation of the antenna

**Choose**

○ Occupational/Controlled ◉

General Population/Uncontrolled ○

| | | |
|---|---|---|
| Tx Frequency: | **978.00** | (MHz) |
| Maximum Peak Power at Antenna Input Terminal: | **45.970** | (dBm) |
| Antenna gain : | **2.15** | (dBi) |

| | | |
|---|---|---|
| **S=** | **3.2600** | (mW/cm^2) |
| **P=** | **39536.6620** | (mW) |
| **G=** | **1.6406** | (numeric) |

**R = 39.7911 (cm)**

| **S (mw/cm^2) at specific distance in cm** | Enter distance desired in cm |
|---|---|
| 0.034073768 | 389 |