

**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 the antenna terminal:	<u>2.65</u> (dBm)
Maximum peak output power at the antenna terminal:	<u>1.840772001</u> (mW)
Antenna gain(typical):	<u>2.5</u> (dBi)
Maximum antenna gain:	<u>1.77827941</u> (numeric)
Prediction distance:	<u>20</u> (cm)
Prediction frequency:	<u>927.3</u> (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.6018</u> (mW/cm <sup>2</sup> )
<b>Power density</b> at prediction frequency:	<b>0.000651</b> (mW/cm <sup>2</sup> )
Maximum allowable antenna gain:	<b>32.15722039</b> (dBi)