

## 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:	<u>31.02</u> (dBm)
Maximum peak output power at antenna input terminal:	1264.736347 (mW)
Antenna gain(typical):	<u> </u>
Maximum antenna gain:	1.995262315 (numeric)
Prediction distance:	<u>     20 </u> (cm)
Prediction frequency:	<u>824.95</u> (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.549966667 (mW/cm^2)
Power density at prediction frequency:	0.502031 (mW/cm^2)
Maximum allowable antenna gain:	3.396062232 (dBi)
Margin of Compliance:	0.396062232