



### **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 isotropic

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	<b>21.40</b>	(dBm)
Maximum peak output power at antenna input terminal:	<b>138.04</b>	(mW)
Antenna gain(typical):	<b>2.1</b>	(dBi)
Maximum antenna gain:	<b>1.622</b>	(numeric)
Prediction distance:	<b>20</b>	(cm)
Source Based Time Average Duty Cycle:	<b>100</b>	(%)
Prediction frequency:	<b>2402</b>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<b>1.000</b>	(mW/cm <sup>2</sup> )
Power density at prediction frequency:	<b>0.0445</b>	(mW/cm <sup>2</sup> )
Power density at prediction frequency:	<b>0.445</b>	(W/m <sup>2</sup> )
Margin of Compliance:	<b>-13.51</b>	(dB)