

## 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 device output terminal:	<u>40.07</u> dBm	
Cable and Jumper loss:	<u>0.0</u> dB	
Maximum peak output power at antenna input terminal:	<u>40.07</u> dBm	
	<u>10162.48693</u> mW	
Single Antenna gain (typical):	<u>24.74</u> dBi	(max for complianc
Number of Antennae:	<u>1</u>	
Total Antenna gain (typical):	<u>24.74</u> dBi	
	<u>297.8516429</u> (numeric)	
Prediction distance:	<u>750</u> cm	
Prediction frequency:	<u>2112.5</u> MHz	
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u> mW/cm <sup>2</sup>	
<b>Power density at prediction frequency:</b>	<b>0.428221</b> mW/cm <sup>2</sup>	
	<b>4.282207</b> W/m <sup>2</sup>	
Tx On time:	<b>1.000000</b> ms	
Tx period time:	<b>1.000000</b> ms	
Average Factor:	<b>100.000000</b> %	
Average Power density at prediction frequency:	<b>4.282207</b> W/m <sup>2</sup>	
Maximum allowable antenna gain:	<b>28.42332391</b> dBi	
<b>Margin of Compliance:</b>	<b>3.683323908</b> dB	