



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>40.7</u> (dBm)	*
Maximum peak output power at antenna input terminal:	<u>11749.0</u> (mW)	
Antenna gain(maximum):	<u>4.15</u> (dBi)	*
Maximum antenna gain:	<u>2.60</u> (numeric)	
Time Averaging:	<u>100</u> (%)	*
Prediction distance:	<u>100</u> (cm)	*
Prediction frequency:	<u>450</u> (MHz)	*
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.300</u> (mW/cm ²)	
Power density at prediction frequency:	0.243 (mW/cm ²)	
This equates to:	2.43 W/m ²	



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where: S = power density
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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>40.7</u> (dBm)	*
Maximum peak output power at antenna input terminal:	<u>11749.0</u> (mW)	
Antenna gain(maximum):	<u>6.65</u> (dBi)	*
Maximum antenna gain:	<u>4.62</u> (numeric)	
Time Averaging:	<u>100</u> (%)	*
Prediction distance:	<u>125</u> (cm)	*
Prediction frequency:	<u>450</u> (MHz)	*
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.300</u> (mW/cm ²)	
Power density at prediction frequency:	0.277 (mW/cm ²)	
This equates to:	2.77 W/m ²	



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

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>40.7</u> (dBm)	*
Maximum peak output power at antenna input terminal:	<u>11749.0</u> (mW)	
Antenna gain(maximum):	<u>12.15</u> (dBi)	*
Maximum antenna gain:	<u>16.41</u> (numeric)	
Time Averaging:	<u>100</u> (%)	*
Prediction distance:	<u>250</u> (cm)	*
Prediction frequency:	<u>450</u> (MHz)	*
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.300</u> (mW/cm ²)	
Power density at prediction frequency:	0.245 (mW/cm ²)	
This equates to:	2.45 W/m ²	