



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 antenna

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	<u>-5.84</u> (dBm)
Source-Based Time Averaging	<u>100.00</u> (%)
Corrected max peak output power:	<u>-5.84</u> (dBm)
Maximum peak output power at antenna input terminal:	<u>0.260615355</u> (mW)
Antenna gain(typical):	<u>2</u> (dBi)
Maximum antenna gain:	<u>1.584893192</u> (numeric)
Prediction distance:	<u>20</u> (cm)
Prediction frequency:	<u>2440</u> (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u> (mW/cm ²)
Power density at prediction frequency:	0.0000821732 (mW/cm ²)
	0.000821732 W/m ²

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