

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>29.70</u> (dBm)
Maximum peak output power at antenna input terminal:	933.2543008 (mW)
Antenna gain(typical):	<u>5.6</u> (dBi)
Maximum antenna gain:	3.630780548 (numeric)
Prediction distance:	<u> </u>
Prediction frequency:	<u>5725-5825</u> (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm^2)
Power density at prediction frequency:	0.674109 (mW/cm^2)

Maximum allowable antenna gain: 7.312698554 (dBi)

Margin of Compliance at 30cm = 8.7dB