

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>12.59</u> (dBm)
Maximum peak output power at antenna input terminal:	<u>18.155</u> (mW)
Antenna gain(typical):	<u>-0.5</u> (dBi)
Maximum antenna gain:	<u>0.891</u> (numeric)
Prediction distance:	<u>20</u> (cm)
Prediction frequency:	<u>2400</u> (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u> (mW/cm ²)
Power density at prediction frequency:	0.003219 (mW/cm ²)
Maximum allowable antenna gain:	24.4 (dBi)
Margin of Compliance at 20 cm =	24.9 dB