

### 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 isotropic

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	33.52	(dBm)
Maximum peak output power at antenna input terminal:	2249.1	(mW)
Antenna gain(typical):	2.15	(dBi)
Maximum antenna gain:	1.641	(numeric)
Prediction distance:	25	(cm)
Source Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	824	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.549	(mW/cm <sup>2</sup> )
Power density at prediction frequency:	0.46980	(mW/cm <sup>2</sup> )
Power density at prediction frequency:	4.6980	(W/m <sup>2</sup> )
Margin of Compliance:	0.68	(dB)