

## 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 device output terminal:	4.38 dBm
Cable and Jumper loss:	0.0 dB
Maximum peak output power at antenna input terminal:	4.38 dBm
	2.741574172 mW
Single Antenna gain (typical):	2.26 dBi
Number of Antennae:	1
Total Antenna gain (typical):	2.26 dBi
	1.682674061 (numeric)
Prediction distance:	20 cm
Prediction frequency:	2402 MHz
MPE limit for uncontrolled exposure at prediction frequency:	1 mW/cm <sup>2</sup>
<b>Power density at prediction frequency:</b>	<b>0.000918 mW/cm<sup>2</sup></b>
	0.009178 W/m <sup>2</sup>
Tx On time:	1.000000 ms
Tx period time:	1.000000 ms
Average Factor:	100.000000 %