ONE WORLD OUR APPROVAL



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:	<u>21.09</u> dBm
Cable and Jumper loss:	<u>1.5</u> dB
Maximum peak output power at antenna input terminal:	19.59 dBm
	90.99132726 mW
Single Antenna gain (typical):	14 dBi
Number of Antennae:	1
Total Antenna gain (typical):	14 dBi
	25.11886432 (numeric)
Prediction distance:	20 cm
Prediction frequency:	5180 MHz
MPE limit for uncontrolled exposure at prediction frequency:	1 mW/cm ²
Power density at prediction frequency:	0.454705 mW/cm ²
	4.547054 W/m ²
Tx On time:	1.000000 ms
Tx period time:	1.000000 ms
Average Factor:	100.000000 %
Average Power density at prediction frequency:	4.547054 W/m ²
Maximum allowable antenna gain:	17.42269855 dBi
Margin of Compliance:	3.422698554 dB