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 terminals (MIMO): _	<u>20.59</u> dBm
Cable and Jumper loss:	<u>1.0</u> dB
Maximum peak output power at antenna input terminals:	<u>19.59</u> dBm
	90.99132726 mW
Uncorrelated MIMO total Antenna gain:	11 dBi
	12.58925412 (numeric)
Prediction distance:	<u>40</u> cm
Prediction frequency:	470 MHz
MPE limit for uncontrolled exposure at prediction frequency:	0.313333333 mW/cm ²
Power density at prediction frequency:	0.056973 mW/cm ²
Power density at prediction frequency:	0.056973 mW/cm ² 0.569731 W/m ²
Power density at prediction frequency: Tx On time:	0.056973 mW/cm ² 0.569731 W/m ² 1.000000 ms
Power density at prediction frequency: Tx On time: Tx period time:	0.056973 mW/cm ² 0.569731 W/m ² 1.000000 ms 1.000000 ms
Power density at prediction frequency: Tx On time: Tx period time: Average Factor:	0.056973 mW/cm ² 0.569731 W/m ² 1.000000 ms 1.000000 ms 100.000000 %
Power density at prediction frequency: Tx On time: Tx period time: Average Power density at prediction frequency:	0.056973 mW/cm ² 0.569731 W/m ² 1.00000 ms 1.000000 ms 100.000000 % 0.569731 W/m ²
Power density at prediction frequency: Tx On time: Tx period time: Average Factor: Average Power density at prediction frequency: Maximum allowable antenna gain:	0.056973 mW/cm ² 0.569731 W/m ² 1.000000 ms 1.000000 ms 100.000000 % 0.569731 W/m ² 18.40336446 dBi