

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:	19.10 dBm
Cable and Jumper loss:	0.0 dB
Maximum peak output power at antenna input terminal:	19.10 dBm
	81.28305162 mW
Single Antenna gain (typical):	2.9 and 3.8 dBi
Number of Antennae:	2
Total Antenna gain (typical):	6.4 dBi
	4.365158322 (numeric)
Prediction distance:	20 cm
Prediction frequency:	5710 MHz
MPE limit for uncontrolled exposure at prediction frequency:	1 mW/cm ²
Power density at prediction frequency:	0.070588 mW/cm²
	0.705879 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:	0.705879 W/m ²
Maximum allowable antenna gain:	17.91269855 dBi
Margin of Compliance:	11.51269855 dB