

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

Fundamental transmit (prediction) frequency: _	2409.6 MHz
Maximum measured conducted peak output power:	29.10 dBm
Cable and/or jumper loss:	0.0 dB
Maximum peak power at antenna input terminal:	
	5.000 ms
Tx period time: _	50.000 ms
Average factor:	10 %
Maximum calculated average power at antenna input terminal:	81.283 mW
Single Antenna gain (typical): _	<u>6</u> dBi
Number of antennae:	
Total system gain (typical): _	6.000 dBi
MPE limit for uncontrolled exposure at prediction frequency:	1 mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency: _	1 mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency: _ Minimum calculated prediction distance for compliance: _	
	10 W/m ²
	10 W/m² 5 cm
Minimum calculated prediction distance for compliance:	10 W/m² 5 cm
Minimum calculated prediction distance for compliance:	10 W/m ² 5 cm 20 cm
Minimum calculated prediction distance for compliance: _ Typical (declared) distance: _	10 W/m ² 5 cm 20 cm
Minimum calculated prediction distance for compliance: _ Typical (declared) distance: _	10 W/m ² 5 cm 20 cm 0.064377 mW/cm ²
Minimum calculated prediction distance for compliance: _ Typical (declared) distance: _	10 W/m² 5 cm 20 cm 0.064377 mW/cm² 0.64377 W/m²
Minimum calculated prediction distance for compliance: Typical (declared) distance: Average power density at prediction frequency:	10 W/m² 5 cm 20 cm 0.064377 mW/cm² 0.64377 W/m²