

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:	-1.93 dBm	
Cable and Jumper loss:	0.0 dB	dBμV/m to dBm
Maximum peak output power at antenna input terminal:	-1.93 dBm	93.3 dBμV/m-95.2%
	0.641209577 mW	
Single Antenna gain (typical):	0 dBi	
Number of Antennae:	1	
Total Antenna gain (typical):	0 dBi	
	1 (numeric)	
Prediction distance:	20 cm	
Prediction frequency:	433 MHz	
MPE limit for uncontrolled exposure at prediction frequency:	0.288666667 mW/cm ²	
Power density at prediction frequency:	0.000128 mW/cm²	
	0.001276 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:	0.001276 W/m ²	
Maximum allowable antenna gain:	33.54666493 dBi	
Margin of Compliance:	33.54666493 dB	