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## 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:	28.28	dBm	See note
Cable and Jumper loss:			
Maximum peak output power at antenna input terminal:	27.28	dBm	
	534.7430081	mW	
Single Antenna gain (typical):		dBi	
Number of Antennae:	1		
Total Antenna gain (typical):			
<u> </u>	50.11872336		
Prediction distance:			
Prediction frequency:	3680	MHz	
MPE limit for uncontrolled exposure at prediction frequency:	1	mW/cm <sup>2</sup>	
Power density at prediction frequency:	0.853091	mW/cm <sup>2</sup>	
Power density at prediction frequency:	<b>0.853091</b> 8.530908	_	
<b>Power density at prediction frequency:</b> Tx On time:		W/m <sup>2</sup>	
	8.530908 1.000000	W/m² ms	
Tx On time:	8.530908 1.000000 1.000000	W/m <sup>2</sup> ms ms	
Tx On time: Tx period time:	8.530908 1.000000 1.000000	W/m <sup>2</sup> ms %	
Tx On time: Tx period time: Average Factor:	8.530908 1.000000 1.000000 100.000000	W/m <sup>2</sup> ms ms % W/m <sup>2</sup>	

Note: Aggregated power of two carries