



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 isotropic radiator

R = distance to the center of radiation of the antenna

AA204Ep		
Maximum peak output power at antenna input terminal:	23.9 (dBm)	*
Maximum peak output power at antenna input terminal:	244.9 (mW)	
Antenna gain(maximum):	22 (dBi)	*
Maximum antenna gain:	158.49 (numeric)	
Time Averaging:	100 (%)	*
Prediction distance:	60 (cm)	*
Prediction frequency:	4980 (MHz)	*
FCC MPE limit for uncontrolled exposure at prediction frequency:	1.000 (mW/cm ²)	
IC MPE limit for uncontrolled exposure at prediction frequency:	27.90 (W/m ²)	
Power density at prediction frequency:	0.858 (mW/cm ²)	
This equates to:	8.58 (W/m ²)	

