

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 antenna input terminal:	43.98 (dBm)	43.979
Maximum peak output power at antenna input terminal:	25000 (mW)	
Antenna gain(typical):	17.5 (dBi)	
Maximum antenna gain:	56.23413252 (numeric)	
Time Averaging:	100 (%)	
Prediction distance:	400 (cm)	
Prediction frequency:	9500 (MHz)	
MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm^2)	
Power density at prediction frequency:	0.699214 (mW/cm^2)	
Margin of compliance:	-1.6 (dB)	
This equates to	6.992140751 W/m^2	PASS
For information This equates to	51.34235155 V/m	

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