



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: 22.80 (dBm) 15.247

Maximum peak output power at antenna input terminal: 190.5460718 (mW)

Antenna gain(typical): 13 (dBi)

Maximum antenna gain: 19.95262315 (numeric)

Prediction distance: 100 (cm)

Prediction frequency: 927.7 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.618466667 (mW/cm²)

Power density at prediction frequency: 0.030255 (mW/cm²)

0.302545 (W/m²)



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Maximum peak output power at antenna input terminal:		(dBm)	Part 90.353
Maximum peak output power at antenna input terminal:	30000	(mW)	max ERP=30W
Antenna gain(typical):	2.15	(dBi)	
Maximum antenna gain:	1.640589773	(numeric)	EIRP=ERP*1.64
Prediction distance:	100	(cm)	
Prediction frequency:	920.45	(MHz)	
MPE limit for uncontrolled exposure at prediction frequency:	0.613633333	(mW/cm^2)	
Power density at prediction frequency:	0.391662	(mW/cm^2)	
	3.916620	(W/m^2)	