

Prediction of Maximum Permissible Exposure

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:	<u>30.00</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>1000</u>	(mW)
Antenna gain(typical):	<u>15</u>	(dBi)
Maximum antenna gain:	<u>31.6227766</u>	(numeric)
Time Averaging:	<u>100</u>	(%)
Prediction distance:	<u>100</u>	(cm)
Prediction frequency:	<u>869</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.533333333</u>	(mW/cm ²)
Power density(mW/cm ²):	0.251646	
Power density(W/cm ²):	2.516460605	
Margin of compliance:	-3.3	(dB)