



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 isot

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	<u>20.00</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>100</u>	(mW)
Antenna gain(typical):	<u>20</u>	(dBi)
Maximum antenna gain:	<u>100</u>	(numeric)
Prediction distance:	<u>50</u>	(cm)
Prediction frequency:	<u>35500</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u>	(mW/cm ²)

Power density at prediction frequency: **0.318310** (mW/cm²)

Margin of Compliance at 50cm 4.971498727 (dB)

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