



## 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 = directional power gain of the antenna relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Max. peak output power at antenna terminal(dBm):	<u>18.00</u>
Max. peak output power at antenna terminal(mW):	<u>63.096</u>
Antenna gain for prediction(dBi):	<u>12</u>
Maximum antenna gain(numeric):	<u>15.848932</u>
Duty Cycle(%):	<u>100</u>
Prediction distance(cm):	<u>20</u>
Prediction frequency(MHz):	<u>824</u>
Limit for uncontrolled exposure(mw/cm <sup>2</sup> ):	<u>0.533</u>

S(mw/cm<sup>2</sup>) = : 0.199