NATIONAL TECHNICAL SYSTEMS

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. output power at antenna terminal(dBm):	**25.50**
Max. output power at antenna terminal(mW):	**354.813**
Antenna gain for prediction(dBi):	**9**
Maximum antenna gain(numeric):	**7.9432823**
Duty Cycle(%):	**50**
Prediction distance(cm):	**20**
Prediction frequency(MHz):	**2300**
Limit for uncontrolled exposure(mw/cm²):	**1.000**
S(mw/cm²) = :	**0.280**

NOTE: 50% duty cycle is based on Time Division Duplex (TDD) which is the normal operating mode of the device. In this mode the transmitter is active 50% of the time and the Receiver is active 50% of the time. The power used in the above calculations was measured with the transmitter in a continuous transmit mode. The measurement was made with an average detector.