

<u>Prediction of Maximum Permissible Exposure</u>

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):27.10Max. output power at antenna terminal(mW):512.861Antenna gain for prediction(dBi):9Maximum antenna gain(numeric):7.9432823Duty Cycle(%):50Prediction distance(cm):20Prediction frequency(MHz):2500Limit for uncontrolled exposure(mw/cm²):1.000

 $S(mw/cm^2) = : 0.405$

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.