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

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|---|---|
| Max. peak output power at antenna terminal(dBm): | **22.90** |
| Max. peak output power at antenna terminal(mW): | **194.984** |
| Antenna gain for prediction(dBi): | **5.5** |
| Maximum antenna gain(numeric): | **3.5481339** |
| Duty Cycle(%): | **100** |
| Prediction distance(cm): | **20** |
| Prediction frequency(MHz): | **2480** |
| Limit for uncontrolled exposure(mw/cm²): | **1.000** |

**S(mw/cm²) = :** **0.138**