## MPE / Health Hazard

## **Requirement:**

According to CFR 15 §1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

## MPE / Health Hazard Separation Distance:

The minimum separation distance calculated following FCC OET Bulletin 65 is calculated as follows, where S is power density,

The power density at 20 cm is computed to be:

EIRP = 22.5 dBm = 177.8 mW (Pk)

 $S(mW/cm^2) = EIRP(mW)/(4 R(cm)^2) = 177.8/(4 20^2) = 0.0354 mW/cm^2(Pk)$ 

ERP is computed to be:

ERP = EIRP - 2.15 = 22.5 - 2.15 = 20.35 dBm

= 0.108 W (Pk)

NOTE: Under no circumstances is the ERP of this device greater than 3W, as required by 2.1091 and the FCC mm-wave accepted test procedures.