

RF Exposure Evaluation

A calculation based on the **FCC's Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields (Edition 97-01)** appears below.

Maximum EIRP = 23.8dBm + 35.3dBi = 59.1dBm = 812,831mW

The limit for General Population/Uncontrolled Exposure is

$$S \text{ [mW/cm}^2\text{]} = 1.0$$

The distance from the antenna at which this radiation level will be reached is

$$R = \text{SQRT}(EIRP / 4\pi S)$$

$$R = \text{SQRT}(812,831 / (4\pi \times 1.0)) = 254.3\text{cm}$$

RESULTS

The minimum distance from the antenna at which the power density is below the limit for General Population/Uncontrolled Exposure is 254.3cm.