

## **MPE Calculation**

$$S = (P * G) / (4 * ¶ * R2)$$

Where:

P = 15 mW

G = 9.0 dBi = 7.94

R = 20 cm

 $S = (15 * 7.94) / (4 * 3.14159 * 20^{2})$ 

 $S = 0.023 \text{ mW/cm}^2 @ 20 \text{ cm}$ 

Solving for R with S = 5.00 and 1.00 yields the following separation distances:

	Occupational Control	Uncontrolled
Maximum Permissible Exposure (MPE)	5.00 mW/cm <sup>2</sup>	1.00 mW/cm <sup>2</sup>
Compliance from Center of Antenna	3.1 cm	1.4 cm
In Compliance	Yes	Yes