

# RF Exposure Calculator

## Calculation Results

Performed on: \_\_\_\_\_ By: \_\_\_\_\_

|                                    |                           |
|------------------------------------|---------------------------|
| Average Power at the Antenna       | 150 watts                 |
| Antenna Gain in dBi                | 2.2 dBi                   |
| Distance to the Area of Interest   | 18 metres<br>59.06 feet   |
| Frequency of Operation             | 28 MHz                    |
| Are Ground Reflections Calculated? | Yes                       |
| Estimated RF Power Density         | 0.0157 mW/cm <sup>2</sup> |

|   | Controlled Environment   | Uncontrolled Environment  |
|---|--------------------------|---------------------------|
| Maximum Permissible Exposure (MPE)                    | 1.15 mW/cm <sup>2</sup>  | 0.23 mW/cm <sup>2</sup>   |
| Distance to Compliance From Centre of Antenna         | 2.12 metres<br>6.95 feet | 4.72 metres<br>15.47 feet |
| Does the Area of Interest Appear to be in Compliance? | Yes                      | Yes                       |

## Interpretation of Results

1. The power value entered into these calculations should be the average power seen at the antenna and not Peak Envelope Power (PEP). You should also consider feedline loss in calculating your average power at the antenna.
2. If you wish to estimate the power density at a point below the main lobe of a directional antenna and if the antenna's vertical pattern is known, recalculate using the antenna's gain in the relevant direction.
3. Please also consult FCC OET Bulletin 65 Supplement B, the Amateur Radio supplement to FCC OET Bulletin 65. It contains a thorough discussion of the RF Safety regulations as they apply to amateur stations and contains numerous charts, tables, worksheets and other data to help determine station compliance.

**[Perform another computation](#)**

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