

Minimum Safe Distance From Antennas

Based upon FCC OET Bulletin 65 and other FCC Sources

INPUT DATA

| | |
|--------------------|--------|
| Frequency MHz | 1850 |
| Pout Watts | 2.2960 |
| Duty Cycle Percent | 100.0% |
| Ant. Gain dBi | 15.00 |
| Coax Loss dB | 0.00 |

RESULTS OF CALCULATIONS

| | |
|---------------------------|---------|
| Min. Distance Inches | 29.93 |
| Min. Distance Centimeters | 76.01 |
| ERP (Watts) | 44.2719 |
| EIRP (Watts) | 72.6059 |


REFERENCE DATA

| | |
|--|-------|
| Antenna Gain (non-log) | 31.62 |
| Coax loss (non-log) | 1.00 |
| Calculated limit (mw/cm ²) | 1.00 |
| FCC Limit (mw/cm ²) | 1.00 |

NOTES:

- (1) Valid only between 300 MHz - 100,000 MHz.
- (2) Calculations are sufficient for determining antenna safe distance for mobile antennas provided that calculated ERP < 1.5 watts for frequencies equal to or below 1.5 GHz, and calculated ERP < 3 watts for frequencies above 1.5 GHz.
- (3) Mobile antenna distances shall be no less than 8 inches.
- (4) There are no predefined ERP and distance limitations for fixed outside (building) antennas (see #5).
- (5) Indoor building antenna criteria is the same as the criteria for mobile antennas (see #2 & #3).
- (6) Mobile/portable stations are limited to 2 watts EIRP peak power in the 1900 MHz band (see 24.232[c]).

SUMMARY FOR PUBLICATION

| | |
|-----------------------------|---|
| For Amplifier Model Number: | 271201 |
| Frequency Band (MHz) | 1900 |
| Mobile or Building? | Building |
| Outside or Inside Antenna? | Outside |
| Antenna Type: | Any Antenna whose overall gain, including coax loss, is less than 15 dBi |
| Safe Distance (inches): | 48 |
| Signature: |  |
| Date: | 11/14/2008 |