

Minimum Safe Distance From Antennas Based upon FCC OET Bulletin 65 and other FCC Sources

INPUT DATA

| Frequency MHz | 1850 |
|--------------------|--------|
| Pout Watts | 1.2250 |
| Duty Cycle Percent | 100.0% |
| Ant. Gain dBi | 6.12 |
| Coax Loss dB | 4.00 |

RESULTS OF CALCULATIONS

| Min. Distance Inches | 4.96 |
|---------------------------|--------|
| Min. Distance Centimeters | 12.60 |
| ERP (Watts) | 1.2170 |
| EIRP (Watts) | 1.9959 |

REFERENCE DATA

| Antenna Gain (non-log) | 4.09 |
|---------------------------|------|
| Coax loss (non-log) | 0.40 |
| Calculated limit (mw/cm2) | 1.00 |
| FCC Limit (mw/cm2) | 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.</p>
- (3) <u>Mobile</u> antenna distances shall be no less than 8 inches.
- (4) There are no predefined ERP and distance limitations for fixed <u>outside</u> (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 Amplifier Model Number: | 271220 |
|-----------------------------|--|
| Frequency Band (MHz) | 1900 |
| Mobile or Fixed? | Mobile |
| Outside or Inside Antenna? | Outside |
| Antenna Type: | Any antenna whose gain less cable loss does not exceeed 2.1 dBi. |
| Safe Distance (inches): | 8 |
| Signature: | Authurd M. Him |
| Date: | 4/17/2009 |