



# Minimum Safe Distance From Antennas

## Based upon FCC OET Bulletin 65 and other FCC Sources

### INPUT DATA

Frequency MHz	1930
Pout Watts	0.9330
Duty Cycle Percent	100.0%
Ant. Gain dBi	15.00
Coax Loss dB	0.00

### RESULTS OF CALCULATIONS

Min. Distance Inches	19.08
Min. Distance Centimeters	48.45
ERP (Watts)	17.9903
EIRP (Watts)	29.5041


### REFERENCE DATA

Antenna Gain (non-log)	31.62
Coax loss (non-log)	1.00
Calculated limit (mw/cm <sup>2</sup> )	1.00
FCC Limit (mw/cm <sup>2</sup> )	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).

### SUMMARY FOR PUBLICATION

For Amplifier Model Number:	2B1401
Frequency Band	1900 MHz
Mobile or Building?	Building
Outside or Inside Antenna?	Outside
Antenna Type:	Any antenna with gain not exceeding 15 dBi
Safe Distance:	26 Inches
Signature:	
Date:	7/2/2008