Minimum Safe Distance From Antennas

Based upon FCC OET Bulletin 65 and other FCC Sources

INPUT DATA

Frequency MHz	1850
Pout Watts	1.8030
Duty Cycle Percent	100.0%
Ant. Gain dBi	0.45
Coax Loss dB	0.00

RESULTS OF CALCULATIONS

Min. Distance Inches	4.97
Min. Distance Centimeters	12.62
ERP (Watts)	1.2194
EIRP (Watts)	1.9998

REFERENCE DATA

Antenna Gain (non-log)	1.11
Coax loss (non-log)	1.00
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.
(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:	2B5225
Frequency Band (MHz)	1900
Mobile or Fixed?	Mobile
Outside or Inside Antenna?	Outside
Antenna Type:	Any antenna whose gain less cable loss is less than 0.45 dBi
Safe Distance (inches):	8 inches
Signature:	
Date:	8/18/2009