



Minimum Safe Distance From Antennas

Based upon FCC OET Bulletin 65 and other FCC Sources

INPUT DATA

Frequency MHz	1850
Pout Watts	0.1514
Duty Cycle Percent	100.0%
Ant. Gain dBi	15.00
Coax Loss dB	0.00

RESULTS OF CALCULATIONS

Min. Distance Inches	7.68
Min. Distance Centimeters	19.52
ERP (Watts)	2.9193
EIRP (Watts)	4.7877


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).

SUMMARY FOR PUBLICATION

For Amplifier Model Number:	271240
Frequency Band (MHz)	1900
Mobile or Building?	Building
Outside or Inside Antenna?	Outside
Antenna Type:	Fixed Yagi antenna or any antenna whose gain does not exceed 15 dBi
Safe Distance (inches):	20
Signature:	
Date:	2/29/2008