

Minimum Safe Distance From Antennas

Based upon FCC OET Bulletin 65 and other FCC Sources

INPUT DATA

Frequency MHz	824
Pout Watts	2.8180
Duty Cycle Percent	100.0%
Ant. Gain dBi	15.00
Coax Loss dB	0.00

RESULTS OF CALCULATIONS

Min. Distance Inches	44.73
Min. Distance Centimeters	113.62
ERP (Watts)	54.3372
EIRP (Watts)	89.1130


REFERENCE DATA

Antenna Gain (non-log)	31.62
Coax loss (non-log)	1.00
Calculated limit (mw/cm ²)	0.55
FCC Limit (mw/cm ²)	f/1500

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)	800
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