



Minimum Safe Distance From Antennas

Based upon FCC OET Bulletin 65 and other FCC Sources

INPUT DATA

Frequency MHz	824
Pout Watts	0.3388
Duty Cycle Percent	100.0%
Ant. Gain dBi	6.12
Coax Loss dB	0.00

RESULTS OF CALCULATIONS

Min. Distance Inches	5.58
Min. Distance Centimeters	14.17
ERP (Watts)	0.8455
EIRP (Watts)	1.3866

REFERENCE DATA

Antenna Gain (non-log)	4.09
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).

SUMMARY FOR PUBLICATION

For Amplifier Model Number:	271240
Frequency Band (MHz)	800
Mobile or Building?	Mobile
Outside or Inside Antenna?	Outside
Antenna Type:	Magnet-Mount or any antenna whose gain does not exceed 6.12 dBi
Safe Distance (inches):	8
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