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	15.00
Coax Loss dB	0.00

RESULTS OF CALCULATIONS

Min. Distance Inches	15.51
Min. Distance Centimeters	39.40
ERP (Watts)	6.5328
EIRP (Watts)	10.7138

REFERENCE DATA

Antenna Gain (non-log)	31.62
Coax loss (non-log)	1.00
Calculated limit (mw/cm2)	0.55
FCC Limit (mw/cm2)	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?	Building
Outside or Inside Antenna?	Outside
Antenna Type:	Fixed Yagi antenna or any antenna whose gain does not exceed 15dBi
Safe Distance (inches):	20
Signature:	
Date:	2/22/1988