



Minimum Safe Distance From Antennas Based upon FCC OET Bulletin 65 and other FCC Sources

INPUT DATA

Frequency MHz	746
Pout Watts	0.42400
Duty Cycle Percent	100.0%
Ant. Gain dBi	7.60
Coax Loss dB	0.00

RESULTS OF CALCULATIONS

Ant. Gain less Coax Loss dBi	7.60
Min. Distance Inches	7.78
Min. Distance Centimeters	19.76
ERP (Watts)	1.4877
EIRP (Watts)	2.4399

REFERENCE DATA

Pout dBm	26.27
Antenna Gain (non-log)	5.75
Coax loss (non-log)	1.00
FCC Limit (mw/cm ²)	f/1500
Calculated limit (mw/cm ²)	0.50

NOTES:

- (1) Valid only between 300 MHz - 100,000 MHz.
- (2) Calculations are sufficient for determining antenna safe distance for mobile antennas and fixed inside 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 and fixed indoor antenna distances shall be no less than 8 inches.
- (4) There are no predefined ERP and distance limitations for fixed outside (building) antennas.
- (5) Mobile/portable stations are limited to 2 watts EIRP peak power in the 1900 MHz band (FCC rules §24.232[c]).

SUMMARY FOR PUBLICATION

For Amplifier Model Number:	271865
Frequency Band (MHz)	746 - 757 MHz (downlink)
Mobile or Fixed?	Fixed
Outside or Inside Antenna?	Inside
Antenna Type:	Any antenna whose gain less cable loss does not exceed 7.6 dBi
Safe Distance (inches):	8 inches
Signature:	
Date:	July 12, 2011



Minimum Safe Distance From Antennas Based upon FCC OET Bulletin 65 and other FCC Sources

INPUT DATA

Frequency MHz	776
Pout Watts	0.73700
Duty Cycle Percent	100.0%
Ant. Gain dBi	10.00
Coax Loss dB	0.00

RESULTS OF CALCULATIONS

Ant. Gain less Coax Loss dBi	10.00
Min. Distance Inches	13.26
Min. Distance Centimeters	33.67
ERP (Watts)	4.4939
EIRP (Watts)	7.3700

REFERENCE DATA

Pout dBm	28.67
Antenna Gain (non-log)	10.00
Coax loss (non-log)	1.00
FCC Limit (mw/cm ²)	f/1500
Calculated limit (mw/cm ²)	0.52

NOTES:

- (1) Valid only between 300 MHz - 100,000 MHz.
- (2) Calculations are sufficient for determining antenna safe distance for mobile antennas and fixed inside 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 and fixed indoor antenna distances shall be no less than 8 inches.
- (4) There are no predefined ERP and distance limitations for fixed outside (building) antennas.
- (5) Mobile/portable stations are limited to 2 watts EIRP peak power in the 1900 MHz band (FCC rules §24.232[c]).

SUMMARY FOR PUBLICATION

For Amplifier Model Number:	271865
Frequency Band (MHz)	776 - 787 MHz (uplink)
Mobile or Fixed?	Fixed
Outside or Inside Antenna?	Outside
Antenna Type:	Any antenna whose gain less cable loss does not exceed 10 dBi
Safe Distance (inches):	14 inches
Signature:	
Date:	July 12, 2011