

Proposed Antenna: PSI FM 1-Bay

Proposed Power: 0.099 kW

Antenna Height AGL: 14 meters

Interference Contour: 136.5 dBu f(50:10)

Official Rcv Antenna Height: 2 meters

Fill in "yellow" cells

Equation: $= (10^{((106.92 - [\text{desired dBu}] + [\text{ERP in dBk}]) / 20)}) * 1000$

Equation $= 106.92 - (20 * (\text{LOG10}[\text{DistMeters} / 1000])) + [\text{ERP in dBk}]$

Depression				Distance				
Angle	Antenna			from Ant.	Distance	Field Strength	Distance	Field Strength
Below	Relative	ERP	ERP	to Interf	from Ant. to	in dBu @	from Ant.	in dBu @
Horizon	Field	in kW	in dBk	Contour	Artificial Plane	Artificial Plane	to Ground Level	Ground Level
0°	1.000	0.099	-10.04	10.44 m	infinite	---	infinite	---
-5°	0.997	0.098	-10.07	10.41 m	137.68 m	114.07 dBu	160.63 m	112.73 dBu
-10°	0.986	0.096	-10.17	10.30 m	69.11 m	119.96 dBu	80.62 m	118.62 dBu
-15°	0.969	0.093	-10.32	10.12 m	46.36 m	123.28 dBu	54.09 m	121.94 dBu
-20°	0.946	0.089	-10.53	9.88 m	35.09 m	125.49 dBu	40.93 m	124.15 dBu
-25°	0.916	0.083	-10.81	9.57 m	28.39 m	127.05 dBu	33.13 m	125.71 dBu
-30°	0.879	0.076	-11.16	9.18 m	24.00 m	128.15 dBu	28.00 m	126.81 dBu
-35°	0.837	0.069	-11.59	8.74 m	20.92 m	128.92 dBu	24.41 m	127.58 dBu
-40°	0.789	0.062	-12.10	8.24 m	18.67 m	129.40 dBu	21.78 m	128.06 dBu
-45°	0.736	0.054	-12.71	7.69 m	16.97 m	129.62 dBu	19.80 m	128.28 dBu
-50°	0.679	0.046	-13.41	7.09 m	15.66 m	129.62 dBu	18.28 m	128.28 dBu
-55°	0.616	0.038	-14.25	6.43 m	14.65 m	129.35 dBu	17.09 m	128.01 dBu
-60°	0.550	0.030	-15.24	5.74 m	13.86 m	128.85 dBu	16.17 m	127.51 dBu
-65°	0.480	0.023	-16.42	5.01 m	13.24 m	128.06 dBu	15.45 m	126.72 dBu
-70°	0.408	0.016	-17.83	4.26 m	12.77 m	126.97 dBu	14.90 m	125.63 dBu
-75°	0.333	0.011	-19.59	3.48 m	12.42 m	125.44 dBu	14.49 m	124.10 dBu
-80°	0.256	0.006	-21.88	2.67 m	12.19 m	123.32 dBu	14.22 m	121.99 dBu
-85°	0.178	0.003	-25.04	1.86 m	12.05 m	120.27 dBu	14.05 m	118.93 dBu
-90°	0.100	0.001	-30.04	1.04 m	12.00 m	115.29 dBu	14.00 m	113.95 dBu