

Proposed Antenna: SWR FMEC 1-Bay

Proposed Power: 0.009 kW

Antenna Height AGL: 91 meters

Interference Contour: 106.5 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	0.009	-20.46	99.57 m	infinite	---	infinite	---
-5°	0.997	0.009	-20.48	99.27 m	1021.16 m	86.25 dBu	610.21 m	90.73 dBu
-10°	0.986	0.009	-20.58	98.17 m	512.53 m	92.15 dBu	524.05 m	91.95 dBu
-15°	0.969	0.008	-20.73	96.48 m	343.87 m	95.46 dBu	351.60 m	95.27 dBu
-20°	0.946	0.008	-20.94	94.19 m	260.22 m	97.67 dBu	266.07 m	97.48 dBu
-25°	0.916	0.008	-21.22	91.20 m	210.59 m	99.23 dBu	215.32 m	99.04 dBu
-30°	0.879	0.007	-21.58	87.52 m	178.00 m	100.33 dBu	182.00 m	100.14 dBu
-35°	0.837	0.006	-22.00	83.34 m	155.17 m	101.10 dBu	158.65 m	100.91 dBu
-40°	0.789	0.006	-22.52	78.56 m	138.46 m	101.58 dBu	141.57 m	101.38 dBu
-45°	0.736	0.005	-23.12	73.28 m	125.87 m	101.80 dBu	128.69 m	101.61 dBu
-50°	0.679	0.004	-23.82	67.61 m	116.18 m	101.80 dBu	118.79 m	101.60 dBu
-55°	0.616	0.003	-24.67	61.33 m	108.65 m	101.53 dBu	111.09 m	101.34 dBu
-60°	0.550	0.003	-25.65	54.76 m	102.77 m	101.03 dBu	105.08 m	100.84 dBu
-65°	0.480	0.002	-26.83	47.79 m	98.20 m	100.24 dBu	100.41 m	100.05 dBu
-70°	0.408	0.001	-28.24	40.62 m	94.71 m	99.15 dBu	96.84 m	98.95 dBu
-75°	0.333	0.001	-30.01	33.16 m	92.14 m	97.62 dBu	94.21 m	97.43 dBu
-80°	0.256	0.001	-32.29	25.49 m	90.37 m	95.51 dBu	92.40 m	95.31 dBu
-85°	0.178	0.000	-35.45	17.72 m	89.34 m	92.45 dBu	91.35 m	92.26 dBu
-90°	0.100	0.000	-40.46	9.96 m	89.00 m	87.47 dBu	91.00 m	87.28 dBu