

Proposed Antenna: SWR FMEC 2-Bay 1/2 wave spaced.

Proposed Power: 0.019 kW

Antenna Height AGL: 59 meters

Interference Contour: 105 dBu

Artificial Rcv Antenna Height: 2 meters

Fill in "yellow"
cells

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

Field Strength (dBu) 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°	0.996	0.019	-17.25	171.25 m	infinite	---	infinite	---
-5°	0.899	0.015	-18.14	154.57 m	654.00 m	92.47 dBu	676.95 m	92.17 dBu
-10°	0.632	0.008	-21.20	108.67 m	328.25 m	95.40 dBu	339.77 m	95.10 dBu
-15°	0.287	0.002	-28.05	49.35 m	220.23 m	92.01 dBu	227.96 m	91.71 dBu
-20°	0.029	0.000	-47.96	4.99 m	166.66 m	74.52 dBu	172.50 m	74.22 dBu
-25°	0.233	0.001	-29.87	40.06 m	134.87 m	94.46 dBu	139.61 m	94.16 dBu
-30°	0.290	0.002	-27.96	49.86 m	114.00 m	97.82 dBu	118.00 m	97.52 dBu
-35°	0.218	0.001	-30.44	37.48 m	99.38 m	96.53 dBu	102.86 m	96.23 dBu
-40°	0.065	0.000	-40.95	11.18 m	88.68 m	87.01 dBu	91.79 m	86.71 dBu
-45°	0.111	0.000	-36.31	19.09 m	80.61 m	92.49 dBu	83.44 m	92.19 dBu
-50°	0.261	0.001	-28.88	44.88 m	74.41 m	100.61 dBu	77.02 m	100.31 dBu
-55°	0.359	0.002	-26.11	61.73 m	69.58 m	103.96 dBu	72.03 m	103.66 dBu
-60°	0.240	0.001	-29.61	41.27 m	65.82 m	100.94 dBu	68.13 m	100.65 dBu
-65°	0.210	0.001	-30.77	36.11 m	62.89 m	100.18 dBu	65.10 m	99.88 dBu
-70°	0.022	0.000	-50.36	3.78 m	60.66 m	80.90 dBu	62.79 m	80.60 dBu
-75°	0.269	0.001	-28.62	46.25 m	59.01 m	102.88 dBu	61.08 m	102.58 dBu
-80°	0.186	0.001	-31.82	31.98 m	57.88 m	99.85 dBu	59.91 m	99.55 dBu
-85°	0.096	0.000	-37.57	16.51 m	57.22 m	94.20 dBu	59.23 m	93.90 dBu
-90°	0.001	0.000	-77.21	0.17 m	57.00 m	54.59 dBu	59.00 m	54.29 dBu