

Proposed Antenna: BEXT TFC2K 2-Bay 1/2 wave spaced.

Proposed Power: 0.25 kW

Antenna Height AGL: 48 meters

Interference Contour: 117 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°	1.000	0.250	-6.02	156.66 m	infinite	---	infinite	---
-5°	0.988	0.244	-6.13	154.78 m	527.79 m	106.35 dBu	550.74 m	105.98 dBu
-10°	0.947	0.224	-6.49	148.36 m	264.90 m	111.96 dBu	276.42 m	111.59 dBu
-15°	0.871	0.190	-7.22	136.45 m	177.73 m	114.70 dBu	185.46 m	114.33 dBu
-20°	0.792	0.157	-8.05	124.08 m	134.50 m	116.30 dBu	140.34 m	115.93 dBu
-25°	0.682	0.116	-9.34	106.85 m	108.85 m	116.84 dBu	113.58 m	116.47 dBu
-30°	0.565	0.080	-10.98	88.52 m	92.00 m	116.66 dBu	96.00 m	116.29 dBu
-35°	0.496	0.062	-12.11	77.71 m	80.20 m	116.73 dBu	83.69 m	116.36 dBu
-40°	0.376	0.035	-14.52	58.91 m	71.56 m	115.31 dBu	74.67 m	114.94 dBu
-45°	0.273	0.019	-17.30	42.77 m	65.05 m	113.36 dBu	67.88 m	112.99 dBu
-50°	0.188	0.009	-20.54	29.45 m	60.05 m	110.81 dBu	62.66 m	110.44 dBu
-55°	0.131	0.004	-23.68	20.52 m	56.16 m	108.26 dBu	58.60 m	107.89 dBu
-60°	0.079	0.002	-28.07	12.38 m	53.12 m	104.35 dBu	55.43 m	103.98 dBu
-65°	0.047	0.001	-32.58	7.36 m	50.76 m	100.23 dBu	52.96 m	99.86 dBu
-70°	0.022	0.000	-39.17	3.45 m	48.95 m	93.95 dBu	51.08 m	93.58 dBu
-75°	0.010	0.000	-46.02	1.57 m	47.62 m	87.34 dBu	49.69 m	86.97 dBu
-80°	0.003	0.000	-56.48	0.47 m	46.71 m	77.05 dBu	48.74 m	76.68 dBu
-85°	0.001	0.000	-66.02	0.16 m	46.18 m	67.61 dBu	48.18 m	67.24 dBu
-90°	0.001	0.000	-66.02	0.16 m	46.00 m	67.64 dBu	48.00 m	67.27 dBu