

Proposed Antenna: Nicom BKG77/2 2-Bay 1/2 wave spaced.

Proposed Power: 0.013 kW

Antenna Height AGL: 53 meters

Interference Contour: 109 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	0.013	-18.86	89.74 m	infinite	---	infinite	---
-5°	0.988	0.013	-18.97	88.66 m	585.16 m	92.61 dBu	608.11 m	92.27 dBu
-10°	0.947	0.012	-19.33	84.98 m	293.70 m	98.23 dBu	305.21 m	97.89 dBu
-15°	0.871	0.010	-20.06	78.16 m	197.05 m	100.97 dBu	204.78 m	100.63 dBu
-20°	0.792	0.008	-20.89	71.07 m	149.11 m	102.56 dBu	154.96 m	102.23 dBu
-25°	0.682	0.006	-22.18	61.20 m	120.68 m	103.10 dBu	125.41 m	102.77 dBu
-30°	0.565	0.004	-23.82	50.70 m	102.00 m	102.93 dBu	106.00 m	102.59 dBu
-35°	0.496	0.003	-24.95	44.51 m	88.92 m	102.99 dBu	92.40 m	102.66 dBu
-40°	0.376	0.002	-27.36	33.74 m	79.34 m	101.57 dBu	82.45 m	101.24 dBu
-45°	0.273	0.001	-30.14	24.50 m	72.12 m	99.62 dBu	74.95 m	99.29 dBu
-50°	0.188	0.000	-33.38	16.87 m	66.58 m	97.08 dBu	69.19 m	96.74 dBu
-55°	0.131	0.000	-36.52	11.76 m	62.26 m	94.52 dBu	64.70 m	94.19 dBu
-60°	0.079	0.000	-40.91	7.09 m	58.89 m	90.61 dBu	61.20 m	90.28 dBu
-65°	0.047	0.000	-45.42	4.22 m	56.27 m	86.50 dBu	58.48 m	86.16 dBu
-70°	0.022	0.000	-52.01	1.97 m	54.27 m	80.22 dBu	56.40 m	79.88 dBu
-75°	0.010	0.000	-58.86	0.90 m	52.80 m	73.61 dBu	54.87 m	73.27 dBu
-80°	0.003	0.000	-69.32	0.27 m	51.79 m	63.32 dBu	53.82 m	62.98 dBu
-85°	0.001	0.000	-78.86	0.09 m	51.19 m	53.87 dBu	53.20 m	53.54 dBu
-90°	0.001	0.000	-78.86	0.09 m	51.00 m	53.91 dBu	53.00 m	53.57 dBu