

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

Proposed Power: 0.099 kW

Antenna Height AGL: 100 meters

Interference Contour: 118.2 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	0.099	-10.04	85.87 m	infinite	---	infinite	---
-5°	0.988	0.097	-10.15	84.83 m	1124.42 m	95.75 dBu	1147.37 m	95.58 dBu
-10°	0.947	0.089	-10.52	81.31 m	564.36 m	101.37 dBu	575.88 m	101.20 dBu
-15°	0.871	0.075	-11.24	74.79 m	378.64 m	104.11 dBu	386.37 m	103.94 dBu
-20°	0.792	0.062	-12.07	68.01 m	286.53 m	105.71 dBu	292.38 m	105.53 dBu
-25°	0.682	0.046	-13.37	58.56 m	231.89 m	106.25 dBu	236.62 m	106.07 dBu
-30°	0.565	0.032	-15.00	48.51 m	196.00 m	106.07 dBu	200.00 m	105.90 dBu
-35°	0.496	0.024	-16.13	42.59 m	170.86 m	106.13 dBu	174.34 m	105.96 dBu
-40°	0.376	0.014	-18.54	32.29 m	152.46 m	104.72 dBu	155.57 m	104.54 dBu
-45°	0.273	0.007	-21.32	23.44 m	138.59 m	102.76 dBu	141.42 m	102.59 dBu
-50°	0.188	0.003	-24.56	16.14 m	127.93 m	100.22 dBu	130.54 m	100.04 dBu
-55°	0.131	0.002	-27.70	11.25 m	119.64 m	97.66 dBu	122.08 m	97.49 dBu
-60°	0.079	0.001	-32.09	6.78 m	113.16 m	93.75 dBu	115.47 m	93.58 dBu
-65°	0.047	0.000	-36.60	4.04 m	108.13 m	89.64 dBu	110.34 m	89.46 dBu
-70°	0.022	0.000	-43.20	1.89 m	104.29 m	83.36 dBu	106.42 m	83.18 dBu
-75°	0.010	0.000	-50.04	0.86 m	101.46 m	76.75 dBu	103.53 m	76.58 dBu
-80°	0.003	0.000	-60.50	0.26 m	99.51 m	66.46 dBu	101.54 m	66.29 dBu
-85°	0.001	0.000	-70.04	0.09 m	98.37 m	57.02 dBu	100.38 m	56.84 dBu
-90°	0.001	0.000	-70.04	0.09 m	98.00 m	57.05 dBu	100.00 m	56.88 dBu