

NICOM BKG77 / 2  
2-bay Half Wave Spaced Circularly Polarized FM Antennaa



Frequency = 104.9 Mhz  
Interfering Contour 104.5 dBu (50,10)

ERP= 250 watts  
Height = 165 m AGL

Depression Angle	Relative Field (o)	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Clearance (m)
1	1.000	250.0	660.65	9,454.28	8794
2	0.998	249.0	659.33	4,727.86	4069
3	0.996	248.0	658.01	3,152.71	2495
4	0.993	246.5	656.02	2,365.37	1709
5	0.990	245.0	654.04	1,893.16	1239
6	0.985	242.6	650.74	1,578.52	928
7	0.980	240.1	647.43	1,353.91	706
8	0.974	237.2	643.47	1,185.57	542
9	0.967	233.8	638.85	1,054.75	416
10	0.959	229.9	633.56	950.20	317
11	0.951	226.1	628.28	864.74	236
12	0.942	221.8	622.33	793.61	171
13	0.932	217.2	615.72	733.49	118
14	0.921	212.1	608.46	682.04	74
15	0.910	207.0	601.19	637.51	36
16	0.899	202.1	593.92	598.61	5
17	0.886	196.2	585.33	564.35	(21)
18	0.873	190.5	576.75	533.95	(43)
19	0.860	184.9	568.16	506.81	(61)
20	0.846	178.9	558.91	482.43	(76)
21	0.832	173.1	549.66	460.42	(89)
22	0.817	166.9	539.75	440.46	(99)
23	0.801	160.4	529.18	422.29	(107)
24	0.786	154.4	519.27	405.67	(114)
25	0.770	148.2	508.70	390.42	(118)
26	0.753	141.8	497.47	376.39	(121)
27	0.736	135.4	486.24	363.44	(123)
28	0.720	129.6	475.67	351.46	(124)
29	0.702	123.2	463.77	340.34	(123)
30	0.685	117.3	452.54	330.00	(123)
31	0.667	111.2	440.65	320.36	(120)
32	0.650	105.6	429.42	311.37	(118)
33	0.632	99.9	417.53	302.95	(115)
34	0.614	94.2	405.64	295.07	(111)
35	0.596	88.8	393.75	287.67	(106)
36	0.578	83.5	381.85	280.71	(101)
37	0.561	78.7	370.62	274.17	(96)
38	0.543	73.7	358.73	268.00	(91)
39	0.525	68.9	346.84	262.19	(85)
40	0.508	64.5	335.61	256.69	(79)
41	0.490	60.0	323.72	251.50	(72)
42	0.473	55.9	312.49	246.59	(66)
43	0.456	52.0	301.26	241.94	(59)
44	0.439	48.2	290.02	237.53	(52)
45	0.422	44.5	278.79	233.35	(45)

Depression Angle	Relative Field	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Clearance (m)
46	0.405	41.0	267.56	229.38	(38)
47	0.389	37.8	256.99	225.61	(31)
48	0.373	34.8	246.42	222.03	(24)
49	0.358	32.0	236.51	218.63	(18)
50	0.352	31.0	232.55	215.39	(17)
51	0.327	26.7	216.03	212.32	(4)
52	0.313	24.5	206.78	209.39	3
53	0.298	22.2	196.87	206.60	10
54	0.284	20.2	187.62	203.95	16
55	0.271	18.4	179.04	201.43	22
56	0.258	16.6	170.45	199.03	29
57	0.245	15.0	161.86	196.74	35
58	0.232	13.5	153.27	194.56	41
59	0.220	12.1	145.34	192.49	47
60	0.208	10.8	137.41	190.53	53
61	0.197	9.7	130.15	188.65	59
62	0.186	8.6	122.88	186.87	64
63	0.179	8.0	118.26	185.18	67
64	0.165	6.8	109.01	183.58	75
65	0.156	6.1	103.06	182.06	79
66	0.146	5.3	96.45	180.61	84
67	0.137	4.7	90.51	179.25	89
68	0.128	4.1	84.56	177.96	93
69	0.120	3.6	79.28	176.74	97
70	0.112	3.1	73.99	175.59	102
71	0.104	2.7	68.71	174.51	106
72	0.097	2.4	64.08	173.49	109
73	0.090	2.0	59.46	172.54	113
74	0.083	1.7	54.83	171.65	117
75	0.077	1.5	50.87	170.82	120
76	0.064	1.0	42.28	170.05	128
77	0.059	0.9	38.98	169.34	130
78	0.053	0.7	35.01	168.69	134
79	0.048	0.6	31.71	168.09	136
80	0.043	0.5	28.41	167.55	139
81	0.043	0.5	28.41	167.06	139
82	0.038	0.4	25.10	166.62	142
83	0.033	0.3	21.80	166.24	144
84	0.028	0.2	18.50	165.91	147
85	0.023	0.1	15.19	165.63	150
86	0.019	0.1	12.55	165.40	153
87	0.014	0.0	9.25	165.23	156
88	0.009	0.0	5.95	165.10	159
89	0.005	0.0	3.30	165.03	162
90	0.000	0.0	0.00	165.00	165

NOTES:  
- HEIGHT HAS BEEN REDUCED BY 2 METERS TO ALLOW FOR HUMAN EXPOSURE  
- DISTANCE FROM ANTENNA TO GROUND IS ACTUALLY TO A POINT 2 METERS ABOVE GROUND