

W234AD NICOM BKG77

1-Bay Circularly Polarized FM Antenna



Frequency = 105.5 Mhz
Interfering Contour 119 dBu (50,10)

ERP= 99 watts
Height = 53 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	99.0	78.31	3,036.83	2959
2	0.996	98.2	78.00	1,518.65	1441
3	0.992	97.4	77.68	1,012.69	935
4	0.989	96.8	77.45	759.79	682
5	0.983	95.7	76.98	608.11	531
6	0.981	95.3	76.82	507.04	430
7	0.979	94.9	76.67	434.89	358
8	0.975	94.1	76.35	380.82	304
9	0.973	93.7	76.20	338.80	263
10	0.971	93.3	76.04	305.21	229
11	0.970	93.1	75.96	277.76	202
12	0.969	93.0	75.88	254.92	179
13	0.968	92.8	75.80	235.61	160
14	0.966	92.4	75.65	219.08	143
15	0.965	92.2	75.57	204.78	129
16	0.961	91.4	75.26	192.28	117
17	0.957	90.7	74.94	181.28	106
18	0.953	89.9	74.63	171.51	97
19	0.949	89.2	74.32	162.79	88
20	0.945	88.4	74.00	154.96	81
21	0.941	87.7	73.69	147.89	74
22	0.938	87.1	73.45	141.48	68
23	0.934	86.4	73.14	135.64	63
24	0.930	85.6	72.83	130.31	57
25	0.926	84.9	72.52	125.41	53
26	0.915	82.9	71.65	120.90	49
27	0.904	80.9	70.79	116.74	46
28	0.894	79.1	70.01	112.89	43
29	0.883	77.2	69.15	109.32	40
30	0.872	75.3	68.29	106.00	38
31	0.868	74.6	67.97	102.91	35
32	0.863	73.7	67.58	100.02	32
33	0.858	72.9	67.19	97.31	30
34	0.850	71.5	66.56	94.78	28
35	0.843	70.4	66.02	92.40	26
36	0.834	68.9	65.31	90.17	25
37	0.824	67.2	64.53	88.07	24
38	0.816	65.9	63.90	86.09	22
39	0.807	64.5	63.20	84.22	21
40	0.798	63.0	62.49	82.45	20
41	0.788	61.5	61.71	80.79	19
42	0.778	59.9	60.93	79.21	18
43	0.767	58.2	60.06	77.71	18
44	0.755	56.4	59.12	76.30	17
45	0.744	54.8	58.26	74.95	17

Depression Angle	Relative Field	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Clearance (m)
46	0.729	52.6	57.09	73.68	17
47	0.716	50.8	56.07	72.47	16
48	0.704	49.1	55.13	71.32	16
49	0.693	47.5	54.27	70.23	16
50	0.682	46.0	53.41	69.19	16
51	0.670	44.4	52.47	68.20	16
52	0.659	43.0	51.61	67.26	16
53	0.648	41.6	50.74	66.36	16
54	0.637	40.2	49.88	65.51	16
55	0.626	38.8	49.02	64.70	16
56	0.611	37.0	47.85	63.93	16
57	0.602	35.9	47.14	63.20	16
58	0.588	34.2	46.05	62.50	16
59	0.579	33.2	45.34	61.83	16
60	0.563	31.4	44.09	61.20	17
61	0.551	30.1	43.15	60.60	17
62	0.538	28.7	42.13	60.03	18
63	0.523	27.1	40.96	59.48	19
64	0.511	25.9	40.02	58.97	19
65	0.499	24.7	39.08	58.48	19
66	0.484	23.2	37.90	58.02	20
67	0.469	21.8	36.73	57.58	21
68	0.454	20.4	35.55	57.16	22
69	0.439	19.1	34.38	56.77	22
70	0.424	17.8	33.20	56.40	23
71	0.409	16.6	32.03	56.05	24
72	0.398	15.7	31.17	55.73	25
73	0.381	14.4	29.84	55.42	26
74	0.366	13.3	28.66	55.14	26
75	0.351	12.2	27.49	54.87	27
76	0.338	11.3	26.47	54.62	28
77	0.319	10.1	24.98	54.39	29
78	0.302	9.0	23.65	54.18	31
79	0.290	8.3	22.71	53.99	31
80	0.277	7.6	21.69	53.82	32
81	0.261	6.7	20.44	53.66	33
82	0.248	6.1	19.42	53.52	34
83	0.231	5.3	18.09	53.40	35
84	0.215	4.6	16.84	53.29	36
85	0.200	4.0	15.66	53.20	38
86	0.189	3.5	14.80	53.13	38
87	0.174	3.0	13.63	53.07	39
88	0.161	2.6	12.61	53.03	40
89	0.147	2.1	11.51	53.01	41
90	0.134	1.8	0.00	53.00	53

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

W286DF NICOM BKG77-2
2-bay 0.85 Wave Spaced Circularly Polarized FM Antenna



Frequency =
Interfering Contour

105.1	Mhz
119	dBu (50,10)

ERP= 120 watts
Height = 112 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	120.0	86.22	6,417.45	6331
2	0.998	119.6	86.08	3,209.22	3123
3	0.988	117.1	85.16	2,140.02	2055
4	0.979	114.9	84.38	1,605.59	1521
5	0.967	112.3	83.39	1,285.06	1202
6	0.952	108.8	82.11	1,071.48	989
7	0.935	105.0	80.64	919.02	838
8	0.916	100.7	78.97	804.75	726
9	0.894	96.0	77.11	715.95	639
10	0.871	91.0	75.07	644.98	570
11	0.842	85.1	72.60	586.97	514
12	0.812	79.1	69.98	538.69	469
13	0.780	72.9	67.22	497.89	431
14	0.746	66.8	64.34	462.96	399
15	0.711	60.7	61.34	432.73	371
16	0.674	54.6	58.14	406.33	348
17	0.636	48.6	54.87	383.07	328
18	0.598	42.9	51.52	362.44	311
19	0.558	37.4	48.11	344.01	296
20	0.518	32.2	44.66	327.47	283
21	0.476	27.2	41.08	312.53	271
22	0.435	22.7	37.48	298.98	261
23	0.393	18.5	33.90	286.64	253
24	0.352	14.8	30.31	275.36	245
25	0.310	11.6	26.76	265.01	238
26	0.269	8.7	23.22	255.49	232
27	0.229	6.3	19.74	246.70	227
28	0.189	4.3	16.31	238.57	222
29	0.150	2.7	12.94	231.02	218
30	0.112	1.5	9.67	224.00	214
31	0.075	0.7	6.44	217.46	211
32	0.038	0.2	3.25	211.35	208
33	0.018	0.0	1.56	205.64	204
34	0.030	0.1	2.55	200.29	198
35	0.062	0.5	5.33	195.27	190
36	0.093	1.0	8.01	190.55	183
37	0.122	1.8	10.48	186.10	176
38	0.149	2.7	12.82	181.92	169
39	0.174	3.6	15.01	177.97	163
40	0.198	4.7	17.04	174.24	157
41	0.219	5.8	18.89	170.72	152
42	0.239	6.9	20.60	167.38	147
43	0.257	7.9	22.16	164.22	142
44	0.273	9.0	23.57	161.23	138
45	0.288	9.9	24.83	158.39	134

Depression Angle	Relative Field	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Clearance (m)
46	0.301	10.9	25.93	155.70	130
47	0.312	11.7	26.89	153.14	126
48	0.321	12.4	27.70	150.71	123
49	0.329	13.0	28.40	148.40	120
50	0.336	13.5	28.95	146.21	117
51	0.341	14.0	29.40	144.12	115
52	0.345	14.3	29.73	142.13	112
53	0.347	14.5	29.95	140.24	110
54	0.349	14.6	30.06	138.44	108
55	0.349	14.6	30.06	136.73	107
56	0.347	14.5	29.93	135.10	105
57	0.345	14.2	29.70	133.54	104
58	0.341	14.0	29.40	132.07	103
59	0.336	13.6	29.01	130.66	102
60	0.331	13.1	28.53	129.33	101
61	0.325	12.7	28.04	128.06	100
62	0.319	12.2	27.47	126.85	99
63	0.311	11.6	26.86	125.70	99
64	0.303	11.1	26.17	124.61	98
65	0.295	10.4	25.42	123.58	98
66	0.286	9.8	24.66	122.60	98
67	0.277	9.2	23.86	121.67	98
68	0.267	8.5	23.01	120.80	98
69	0.257	7.9	22.12	119.97	98
70	0.246	7.3	21.20	119.19	98
71	0.237	6.7	20.40	118.45	98
72	0.227	6.2	19.59	117.76	98
73	0.217	5.7	18.74	117.12	98
74	0.207	5.2	17.88	116.51	99
75	0.197	4.7	16.99	115.95	99
76	0.188	4.3	16.23	115.43	99
77	0.179	3.8	15.43	114.95	100
78	0.170	3.5	14.65	114.50	100
79	0.160	3.1	13.82	114.10	100
80	0.151	2.7	13.00	113.73	101
81	0.145	2.5	12.53	113.40	101
82	0.140	2.3	12.03	113.10	101
83	0.134	2.2	11.55	112.84	101
84	0.128	2.0	11.04	112.62	102
85	0.122	1.8	10.55	112.43	102
86	0.121	1.8	10.44	112.27	102
87	0.120	1.7	10.36	112.15	102
88	0.119	1.7	10.24	112.07	102
89	0.117	1.7	10.12	112.02	102
90	0.117	1.6	10.12	112.00	102

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
- VALUES ON THIS TABLE TAKEN FROM MANUFACTURER DATA SHEET AND CONVERTED TO FIELD VALUE FROM %