

# 1-Bay Circularly Polarized FM Antenna



Frequency = 106.3 Mhz  
Interfering Contour 113.2 dBu (50,10)

ERP= 92 watts  
Height = 117 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	92.0	147.20	6,703.95	6557
2	0.999	91.8	147.05	3,352.48	3205
3	0.999	91.8	147.05	2,235.56	2089
4	0.998	91.6	146.90	1,677.26	1530
5	0.996	91.3	146.61	1,342.42	1196
6	0.995	91.1	146.46	1,119.31	973
7	0.993	90.7	146.16	960.04	814
8	0.991	90.4	145.87	840.68	695
9	0.988	89.8	145.43	747.92	602
10	0.985	89.3	144.99	673.78	529
11	0.982	88.7	144.55	613.18	469
12	0.979	88.2	144.10	562.74	419
13	0.975	87.5	143.52	520.11	377
14	0.971	86.7	142.93	483.63	341
15	0.967	86.0	142.34	452.05	310
16	0.963	85.3	141.75	424.47	283
17	0.958	84.4	141.01	400.18	259
18	0.953	83.6	140.28	378.62	238
19	0.948	82.7	139.54	359.37	220
20	0.942	81.6	138.66	342.09	203
21	0.936	80.6	137.77	326.48	189
22	0.930	79.6	136.89	312.33	175
23	0.924	78.5	136.01	299.44	163
24	0.917	77.4	134.98	287.66	153
25	0.910	76.2	133.95	276.85	143
26	0.903	75.0	132.92	266.90	134
27	0.895	73.7	131.74	257.71	126
28	0.887	72.4	130.56	249.22	119
29	0.879	71.1	129.38	241.33	112
30	0.871	69.8	128.21	234.00	106
31	0.862	68.4	126.88	227.17	100
32	0.854	67.1	125.70	220.79	95
33	0.845	65.7	124.38	214.82	90
34	0.835	64.1	122.91	209.23	86
35	0.826	62.8	121.58	203.98	82
36	0.816	61.3	120.11	199.05	79
37	0.806	59.8	118.64	194.41	76
38	0.796	58.3	117.17	190.04	73
39	0.785	56.7	115.55	185.91	70
40	0.774	55.1	113.93	182.02	68
41	0.763	53.6	112.31	178.34	66
42	0.752	52.0	110.69	174.85	64
43	0.741	50.5	109.07	171.55	62
44	0.729	48.9	107.31	168.43	61
45	0.717	47.3	105.54	165.46	60

Depression Angle	Relative Field	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Clearance (m)
46	0.705	45.7	103.77	162.65	59
47	0.693	44.2	102.01	159.98	58
48	0.680	42.5	100.09	157.44	57
49	0.667	40.9	98.18	155.03	57
50	0.654	39.3	96.27	152.73	56
51	0.641	37.8	94.35	150.55	56
52	0.628	36.3	92.44	148.48	56
53	0.614	34.7	90.38	146.50	56
54	0.600	33.1	88.32	144.62	56
55	0.586	31.6	86.26	142.83	57
56	0.572	30.1	84.20	141.13	57
57	0.558	28.6	82.13	139.51	57
58	0.544	27.2	80.07	137.96	58
59	0.529	25.7	77.87	136.50	59
60	0.514	24.3	75.66	135.10	59
61	0.499	22.9	73.45	133.77	60
62	0.484	21.6	71.24	132.51	61
63	0.469	20.2	69.03	131.31	62
64	0.453	18.9	66.68	130.17	63
65	0.437	17.6	64.32	129.10	65
66	0.422	16.4	62.12	128.07	66
67	0.406	15.2	59.76	127.10	67
68	0.390	14.0	57.41	126.19	69
69	0.373	12.8	54.90	125.32	70
70	0.357	11.7	52.55	124.51	72
71	0.341	10.7	50.19	123.74	74
72	0.324	9.7	47.69	123.02	75
73	0.307	8.7	45.19	122.35	77
74	0.290	7.7	42.69	121.72	79
75	0.273	6.9	40.18	121.13	81
76	0.259	6.2	38.12	120.58	82
77	0.239	5.3	35.18	120.08	85
78	0.221	4.5	32.53	119.61	87
79	0.204	3.8	30.03	119.19	89
80	0.186	3.2	27.38	118.80	91
81	0.168	2.6	24.73	118.46	94
82	0.151	2.1	22.23	118.15	96
83	0.133	1.6	19.58	117.88	98
84	0.114	1.2	16.78	117.64	101
85	0.096	0.8	14.13	117.45	103
86	0.078	0.6	11.48	117.29	106
87	0.059	0.3	8.68	117.16	108
88	0.040	0.1	5.89	117.07	111
89	0.021	0.0	3.09	117.02	114
90	0.000	0.0	0.00	117.00	117

## 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