

SCALA  
Model FMV 2-Bay Vertically Polarized FM Antenna



Frequency = 103.9 Mhz  
Interfering Contour 114.6 dBu (50,10)

ERP= 140 watts  
Height = 31 m AGL

Depression Angle	Relative Field (o)	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Clearance (m)
1	0.998	139.4	154.24	1,776.26	1622
2	0.994	138.3	153.62	888.26	735
3	0.988	136.7	152.69	592.33	440
4	0.978	133.9	151.15	444.40	293
5	0.967	130.9	149.45	355.69	206
6	0.953	127.1	147.28	296.57	149
7	0.936	122.7	144.66	254.37	110
8	0.918	118.0	141.88	222.74	81
9	0.896	112.4	138.48	198.17	60
10	0.873	106.7	134.92	178.52	44
11	0.847	100.4	130.90	162.47	32
12	0.820	94.1	126.73	149.10	22
13	0.790	87.4	122.09	137.81	16
14	0.759	80.7	117.30	128.14	11
15	0.726	73.8	112.20	119.77	8
16	0.693	67.2	107.10	112.47	5
17	0.657	60.4	101.54	106.03	4
18	0.621	54.0	95.97	100.32	4
19	0.584	47.7	90.26	95.22	5
20	0.545	41.6	84.23	90.64	6
21	0.507	36.0	78.36	86.50	8
22	0.468	30.7	72.33	82.75	10
23	0.428	25.6	66.15	79.34	13
24	0.389	21.2	60.12	76.22	16
25	0.350	17.2	54.09	73.35	19
26	0.311	13.5	48.06	70.72	23
27	0.273	10.4	42.19	68.28	26
28	0.235	7.7	36.32	66.03	30
29	0.199	5.5	30.76	63.94	33
30	0.163	3.7	25.19	62.00	37
31	0.128	2.3	19.78	60.19	40
32	0.095	1.3	14.68	58.50	44
33	0.062	0.5	9.58	56.92	47
34	0.032	0.1	4.95	55.44	50
35	0.020	0.1	3.09	54.05	51
36	0.025	0.1	3.86	52.74	49
37	0.051	0.4	7.88	51.51	44
38	0.076	0.8	11.75	50.35	39
39	0.098	1.3	15.15	49.26	34
40	0.119	2.0	18.39	48.23	30
41	0.138	2.7	21.33	47.25	26
42	0.156	3.4	24.11	46.33	22
43	0.171	4.1	26.43	45.45	19
44	0.185	4.8	28.59	44.63	16
45	0.198	5.5	30.60	43.84	13

Depression Angle	Relative Field	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Clearance (m)
46	0.208	6.1	32.15	43.10	11
47	0.218	6.7	33.69	42.39	9
48	0.225	7.1	34.77	41.71	7
49	0.231	7.5	35.70	41.08	5
50	0.235	7.7	36.32	40.47	4
51	0.239	8.0	36.94	39.89	3
52	0.241	8.1	37.25	39.34	2
53	0.242	8.2	37.40	38.82	1
54	0.241	8.1	37.25	38.32	1
55	0.240	8.1	37.09	37.84	1
56	0.238	7.9	36.78	37.39	1
57	0.235	7.7	36.32	36.96	1
58	0.232	7.5	35.86	36.55	1
59	0.223	6.9	34.42	36.17	2
60	0.222	6.9	34.31	35.80	1
61	0.216	6.5	33.38	35.44	2
62	0.210	6.2	32.46	35.11	3
63	0.204	5.8	31.53	34.79	3
64	0.196	5.4	30.29	34.49	4
65	0.189	5.0	29.21	34.20	5
66	0.181	4.6	27.97	33.93	6
67	0.173	4.2	26.74	33.68	7
68	0.165	3.8	25.50	33.43	8
69	0.157	3.5	24.26	33.21	9
70	0.148	3.1	22.87	32.99	10
71	0.139	2.7	21.48	32.79	11
72	0.131	2.4	20.25	32.60	12
73	0.122	2.1	18.85	32.42	14
74	0.113	1.8	17.46	32.25	15
75	0.104	1.5	16.07	32.09	16
76	0.095	1.3	14.68	31.95	17
77	0.087	1.1	13.45	31.82	18
78	0.078	0.9	12.05	31.69	20
79	0.069	0.7	10.66	31.58	21
80	0.060	0.5	9.27	31.48	22
81	0.052	0.4	8.04	31.39	23
82	0.043	0.3	6.65	31.30	25
83	0.035	0.2	5.41	31.23	26
84	0.026	0.1	4.02	31.17	27
85	0.018	0.0	2.78	31.12	28
86	0.010	0.0	1.55	31.08	30
87	0.010	0.0	1.55	31.04	29
88	0.010	0.0	1.55	31.02	29
89	0.015	0.0	2.32	31.00	29
90	0.023	0.1	0.00	31.00	31

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