

SCALA
Model FMV 3-Bay Vertically Polarized FM Antenna



Frequency = 99.5 Mhz
Interfering Contour 99.9 dBu (50,10)

128 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	0.996	127.0	799.58	6,417.45	5618
2	0.987	124.7	792.36	3,209.22	2417
3	0.971	120.7	779.51	2,140.02	1361
4	0.949	115.3	761.85	1,605.59	844
5	0.921	108.6	739.37	1,285.06	546
6	0.888	100.9	712.88	1,071.48	359
7	0.850	92.5	682.38	919.02	237
8	0.807	83.4	647.86	804.75	157
9	0.759	73.7	609.32	715.95	107
10	0.708	64.2	568.38	644.98	77
11	0.654	54.7	525.03	586.97	62
12	0.597	45.6	479.27	538.69	59
13	0.538	37.0	431.90	497.89	66
14	0.478	29.2	383.74	462.96	79
15	0.418	22.4	335.57	432.73	97
16	0.357	16.3	286.60	406.33	120
17	0.297	11.3	238.43	383.07	145
18	0.238	7.3	191.07	362.44	171
19	0.181	4.2	145.31	344.01	199
20	0.126	2.0	101.15	327.47	226
21	0.074	0.7	59.41	312.53	253
22	0.025	0.1	20.07	298.98	279
23	0.021	0.1	16.86	286.64	270
24	0.063	0.5	50.58	275.36	225
25	0.100	1.3	80.28	265.01	185
26	0.134	2.3	107.57	255.49	148
27	0.163	3.4	130.86	246.70	116
28	0.188	4.5	150.93	238.57	88
29	0.208	5.5	166.98	231.02	64
30	0.224	6.4	179.83	224.00	44
31	0.235	7.1	188.66	217.46	29
32	0.242	7.5	194.28	211.35	17
33	0.246	7.7	197.49	205.64	8
34	0.246	7.7	197.49	200.29	3
35	0.242	7.5	194.28	195.27	1
36	0.236	7.1	189.46	190.55	1
37	0.227	6.6	182.23	186.10	4
38	0.215	5.9	172.60	181.92	9
39	0.201	5.2	161.36	177.97	17
40	0.186	4.4	149.32	174.24	25
41	0.169	3.7	135.67	170.72	35
42	0.150	2.9	120.42	167.38	47
43	0.132	2.2	105.97	164.22	58
44	0.112	1.6	89.91	161.23	71
45	0.093	1.1	74.66	158.39	84

Depression Angle	Relative Field	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Clearance (m)
46	0.073	0.7	58.60	155.70	97
47	0.054	0.4	43.35	153.14	110
48	0.036	0.2	28.90	150.71	122
49	0.018	0.0	14.45	148.40	134
50	0.010	0.0	8.03	146.21	138
51	0.016	0.0	12.84	144.12	131
52	0.031	0.1	24.89	142.13	117
53	0.045	0.3	36.13	140.24	104
54	0.058	0.4	46.56	138.44	92
55	0.069	0.6	55.39	136.73	81
56	0.079	0.8	63.42	135.10	72
57	0.088	1.0	70.65	133.54	63
58	0.096	1.2	77.07	132.07	55
59	0.103	1.4	82.69	130.66	48
60	0.108	1.5	86.70	129.33	43
61	0.112	1.6	89.91	128.06	38
62	0.115	1.7	92.32	126.85	35
63	0.117	1.8	93.93	125.70	32
64	0.118	1.8	94.73	124.61	30
65	0.118	1.8	94.73	123.58	29
66	0.117	1.8	93.93	122.60	29
67	0.116	1.7	93.12	121.67	29
68	0.113	1.6	90.72	120.80	30
69	0.111	1.6	89.11	119.97	31
70	0.098	1.2	78.67	119.19	41
71	0.103	1.4	82.69	118.45	36
72	0.098	1.2	78.67	117.76	39
73	0.093	1.1	74.66	117.12	42
74	0.088	1.0	70.65	116.51	46
75	0.082	0.9	65.83	115.95	50
76	0.076	0.7	61.01	115.43	54
77	0.070	0.6	56.20	114.95	59
78	0.063	0.5	50.58	114.50	64
79	0.057	0.4	45.76	114.10	68
80	0.050	0.3	40.14	113.73	74
81	0.043	0.2	34.52	113.40	79
82	0.036	0.2	28.90	113.10	84
83	0.029	0.1	23.28	112.84	90
84	0.022	0.1	17.66	112.62	95
85	0.015	0.0	12.04	112.43	100
86	0.010	0.0	8.03	112.27	104
87	0.010	0.0	8.03	112.15	104
88	0.010	0.0	8.03	112.07	104
89	0.013	0.0	10.44	112.02	102
90	0.020	0.1	0.00	112.00	112

NOTE:
- HEIGHT OF C.O.R. HAS BEEN REDUCED BY 2 METERS TO ALLOW FOR HUMAN EXPOSURE
AS SUCH, DISTANCE FROM ANTENNA TO GROUND IS ACTUALLY TO A POINT 2 METERS ABOVE GROUND