

RVR ACP-2
1-Bay Circularly Polarized FM Directional Antenna



Frequency = 96.9 Mhz
Interfering Contour 101.5 dBu (50,10)

ERP= 100 watts
Height = 226 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	100.0	590.20	12,949.50	12359
2	0.996	99.2	587.84	6,475.74	5888
3	0.992	98.4	585.48	4,318.25	3733
4	0.989	97.8	583.71	3,239.84	2656
5	0.983	96.6	580.17	2,593.06	2013
6	0.981	96.2	578.99	2,162.09	1583
7	0.979	95.8	577.81	1,854.45	1277
8	0.975	95.1	575.45	1,623.88	1048
9	0.973	94.7	574.27	1,444.69	870
10	0.971	94.3	573.09	1,301.48	728
11	0.970	94.1	572.50	1,184.43	612
12	0.969	93.9	571.90	1,087.00	515
13	0.968	93.7	571.31	1,004.66	433
14	0.966	93.3	570.13	934.19	364
15	0.965	93.1	569.54	873.20	304
16	0.961	92.4	567.18	819.92	253
17	0.957	91.6	564.82	772.99	208
18	0.953	90.8	562.46	731.35	169
19	0.949	90.1	560.10	694.17	134
20	0.945	89.3	557.74	660.78	103
21	0.941	88.5	555.38	630.64	75
22	0.938	88.0	553.61	603.30	50
23	0.934	87.2	551.25	578.40	27
24	0.930	86.5	548.89	555.64	7
25	0.926	85.7	546.53	534.76	(12)
26	0.915	83.7	540.03	515.54	(24)
27	0.904	81.7	533.54	497.81	(36)
28	0.894	79.9	527.64	481.39	(46)
29	0.883	78.0	521.15	466.16	(55)
30	0.872	76.0	514.66	452.00	(63)
31	0.868	75.3	512.29	438.80	(73)
32	0.863	74.5	509.34	426.48	(83)
33	0.858	73.6	506.39	414.95	(91)
34	0.850	72.3	501.67	404.15	(98)
35	0.843	71.1	497.54	394.02	(104)
36	0.834	69.6	492.23	384.49	(108)
37	0.824	67.9	486.33	375.53	(111)
38	0.816	66.6	481.60	367.08	(115)
39	0.807	65.1	476.29	359.12	(117)
40	0.798	63.7	470.98	351.59	(119)
41	0.788	62.1	465.08	344.48	(121)
42	0.778	60.5	459.18	337.75	(121)
43	0.767	58.8	452.68	331.38	(121)
44	0.755	57.0	445.60	325.34	(120)
45	0.744	55.4	439.11	319.61	(119)

Depression Angle	Relative Field	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Clearance (m)
46	0.729	53.1	430.26	314.18	(116)
47	0.716	51.3	422.58	309.02	(114)
48	0.704	49.6	415.50	304.11	(111)
49	0.693	48.0	409.01	299.45	(110)
50	0.682	46.5	402.52	295.02	(107)
51	0.670	44.9	395.43	290.81	(105)
52	0.659	43.4	388.94	286.80	(102)
53	0.648	42.0	382.45	282.98	(99)
54	0.637	40.6	375.96	279.35	(97)
55	0.626	39.2	369.47	275.90	(94)
56	0.611	37.3	360.61	272.61	(88)
57	0.602	36.2	355.30	269.47	(86)
58	0.588	34.6	347.04	266.49	(81)
59	0.579	33.5	341.73	263.66	(78)
60	0.563	31.7	332.28	260.96	(71)
61	0.551	30.4	325.20	258.40	(67)
62	0.538	28.9	317.53	255.96	(62)
63	0.523	27.4	308.68	253.65	(55)
64	0.511	26.1	301.59	251.45	(50)
65	0.499	24.9	294.51	249.36	(45)
66	0.484	23.4	285.66	247.39	(38)
67	0.469	22.0	276.80	245.52	(31)
68	0.454	20.6	267.95	243.75	(24)
69	0.439	19.3	259.10	242.08	(17)
70	0.424	18.0	250.25	240.50	(10)
71	0.409	16.7	241.39	239.02	(2)
72	0.398	15.8	234.90	237.63	3
73	0.381	14.5	224.87	236.33	11
74	0.366	13.4	216.01	235.11	19
75	0.351	12.3	207.16	233.97	27
76	0.338	11.4	199.49	232.92	33
77	0.319	10.2	188.27	231.94	44
78	0.302	9.1	178.24	231.05	53
79	0.290	8.4	171.16	230.23	59
80	0.277	7.7	163.49	229.49	66
81	0.261	6.8	154.04	228.82	75
82	0.248	6.2	146.37	228.22	82
83	0.231	5.3	136.34	227.70	91
84	0.215	4.6	126.89	227.24	100
85	0.200	4.0	118.04	226.86	109
86	0.189	3.6	111.55	226.55	115
87	0.174	3.0	102.69	226.31	124
88	0.161	2.6	95.02	226.14	131
89	0.147	2.2	86.76	226.03	139
90	0.134	1.8	0.00	226.00	226

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