

# ERI FM 100A

## 1-Bay Circularly Polarized FM Antenna

Frequency = 93.9 / 94.3 Mhz  
Interfering Contour 117 dBu (50,10)

ERP= 250 watts  
Height = 83 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	250.0	156.66	4,755.79	4599
2	0.996	248.0	156.04	2,378.26	2222
3	0.992	246.0	155.41	1,585.91	1430
4	0.989	244.5	154.94	1,189.85	1035
5	0.983	241.6	154.00	952.32	798
6	0.981	240.6	153.69	794.04	640
7	0.979	239.6	153.37	681.06	528
8	0.975	237.7	152.75	596.38	444
9	0.973	236.7	152.43	530.57	378
10	0.971	235.7	152.12	477.98	326
11	0.970	235.2	151.96	434.99	283
12	0.969	234.7	151.81	399.21	247
13	0.968	234.3	151.65	368.97	217
14	0.966	233.3	151.34	343.09	192
15	0.965	232.8	151.18	320.69	170
16	0.961	230.9	150.55	301.12	151
17	0.957	229.0	149.93	283.89	134
18	0.953	227.1	149.30	268.59	119
19	0.949	225.2	148.67	254.94	106
20	0.945	223.3	148.05	242.68	95
21	0.941	221.4	147.42	231.61	84
22	0.938	220.0	146.95	221.57	75
23	0.934	218.1	146.32	212.42	66
24	0.930	216.2	145.70	204.06	58
25	0.926	214.4	145.07	196.39	51
26	0.915	209.3	143.35	189.34	46
27	0.904	204.3	141.62	182.82	41
28	0.894	199.8	140.06	176.79	37
29	0.883	194.9	138.33	171.20	33
30	0.872	190.1	136.61	166.00	29
31	0.868	188.4	135.98	161.15	25
32	0.863	186.2	135.20	156.63	21
33	0.858	184.0	134.42	152.39	18
34	0.850	180.6	133.16	148.43	15
35	0.843	177.7	132.07	144.71	13
36	0.834	173.9	130.66	141.21	11
37	0.824	169.7	129.09	137.92	9
38	0.816	166.5	127.84	134.81	7
39	0.807	162.8	126.43	131.89	5
40	0.798	159.2	125.02	129.13	4
41	0.788	155.2	123.45	126.51	3
42	0.778	151.3	121.88	124.04	2
43	0.767	147.1	120.16	121.70	2
44	0.755	142.5	118.28	119.48	1
45	0.744	138.4	116.56	117.38	1

Depression Angle	Relative Field	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Clearance (m)
46	0.729	132.9	114.21	115.38	1
47	0.716	128.2	112.17	113.49	1
48	0.704	123.9	110.29	111.69	1
49	0.693	120.1	108.57	109.98	1
50	0.682	116.3	106.85	108.35	2
51	0.670	112.2	104.97	106.80	2
52	0.659	108.6	103.24	105.33	2
53	0.648	105.0	101.52	103.93	2
54	0.637	101.4	99.80	102.59	3
55	0.626	98.0	98.07	101.32	3
56	0.611	93.3	95.72	100.12	4
57	0.602	90.6	94.31	98.97	5
58	0.588	86.4	92.12	97.87	6
59	0.579	83.8	90.71	96.83	6
60	0.563	79.2	88.20	95.84	8
61	0.551	75.9	86.32	94.90	9
62	0.538	72.4	84.29	94.00	10
63	0.523	68.4	81.94	93.15	11
64	0.511	65.3	80.06	92.35	12
65	0.499	62.3	78.18	91.58	13
66	0.484	58.6	75.83	90.85	15
67	0.469	55.0	73.48	90.17	17
68	0.454	51.5	71.13	89.52	18
69	0.439	48.2	68.78	88.91	20
70	0.424	44.9	66.43	88.33	22
71	0.409	41.8	64.08	87.78	24
72	0.398	39.6	62.35	87.27	25
73	0.381	36.3	59.69	86.79	27
74	0.366	33.5	57.34	86.34	29
75	0.351	30.8	54.99	85.93	31
76	0.338	28.6	52.95	85.54	33
77	0.319	25.4	49.98	85.18	35
78	0.302	22.8	47.31	84.85	38
79	0.290	21.0	45.43	84.55	39
80	0.277	19.2	43.40	84.28	41
81	0.261	17.0	40.89	84.03	43
82	0.248	15.4	38.85	83.82	45
83	0.231	13.3	36.19	83.62	47
84	0.215	11.6	33.68	83.46	50
85	0.200	10.0	31.33	83.32	52
86	0.189	8.9	29.61	83.20	54
87	0.174	7.6	27.26	83.11	56
88	0.161	6.5	25.22	83.05	58
89	0.147	5.4	23.03	83.01	60
90	0.134	4.5	0.00	83.00	83

### 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