

**Shively Model 6812-B**  
**2-Bay Full-Wave Spaced Circularly Polarized FM Antenna**



Frequency = 

99.7
111

 Mhz  
Interfering Contour 

dBu (50,10)
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ERP= 

250
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 watts  
Height = 

108
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 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	312.59	6,188.26	5876
2	0.995	247.5	311.02	3,094.60	2784
3	0.989	244.5	309.15	2,063.59	1754
4	0.980	240.1	306.33	1,548.24	1242
5	0.969	234.7	302.90	1,239.16	936
6	0.956	228.5	298.83	1,033.21	734
7	0.941	221.4	294.14	886.19	592
8	0.974	237.2	304.46	776.01	472
9	0.923	213.0	288.52	690.38	402
10	0.881	194.0	275.39	621.95	347
11	0.858	184.0	268.20	566.01	298
12	0.832	173.1	260.07	519.45	259
13	0.805	162.0	251.63	480.10	228
14	0.776	150.5	242.57	446.43	204
15	0.745	138.8	232.88	417.28	184
16	0.714	127.4	223.19	391.82	169
17	0.681	115.9	212.87	369.39	157
18	0.647	104.7	202.24	349.50	147
19	0.612	93.6	191.30	331.73	140
20	0.576	82.9	180.05	315.77	136
21	0.539	72.6	168.48	301.37	133
22	0.502	63.0	156.92	288.30	131
23	0.465	54.1	145.35	276.40	131
24	0.427	45.6	133.47	265.53	132
25	0.387	37.4	120.97	255.55	135
26	0.352	31.0	110.03	246.37	136
27	0.314	24.6	98.15	237.89	140
28	0.277	19.2	86.59	230.05	143
29	0.240	14.4	75.02	222.77	148
30	0.203	10.3	63.46	216.00	153
31	0.168	7.1	52.51	209.69	157
32	0.132	4.4	41.26	203.80	163
33	0.098	2.4	30.63	198.30	168
34	0.065	1.1	20.32	193.14	173
35	0.032	0.3	10.00	188.29	178
36	0.001	0.0	0.31	183.74	183
37	0.029	0.2	9.07	179.46	170
38	0.058	0.8	18.13	175.42	157
39	0.086	1.8	26.88	171.61	145
40	0.112	3.1	35.01	168.02	133
41	0.137	4.7	42.82	164.62	122
42	0.161	6.5	50.33	161.40	111
43	0.183	8.4	57.20	158.36	101
44	0.204	10.4	63.77	155.47	92
45	0.224	12.5	70.02	152.74	83

Depression Angle	Relative Field	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Clearance (m)
46	0.242	14.6	75.65	150.14	74
47	0.258	16.6	80.65	147.67	67
48	0.273	18.6	85.34	145.33	60
49	0.287	20.6	89.71	143.10	53
50	0.299	22.4	93.46	140.98	48
51	0.310	24.0	96.90	138.97	42
52	0.319	25.4	99.72	137.05	37
53	0.327	26.7	102.22	135.23	33
54	0.334	27.9	104.40	133.50	29
55	0.339	28.7	105.97	131.84	26
56	0.343	29.4	107.22	130.27	23
57	0.346	29.9	108.15	128.78	21
58	0.348	30.3	108.78	127.35	19
59	0.348	30.3	108.78	126.00	17
60	0.347	30.1	108.47	124.71	16
61	0.345	29.8	107.84	123.48	16
62	0.343	29.4	107.22	122.32	15
63	0.339	28.7	105.97	121.21	15
64	0.334	27.9	104.40	120.16	16
65	0.328	26.9	102.53	119.16	17
66	0.322	25.9	100.65	118.22	18
67	0.315	24.8	98.46	117.33	19
68	0.306	23.4	95.65	116.48	21
69	0.298	22.2	93.15	115.68	23
70	0.288	20.7	90.02	114.93	25
71	0.278	19.3	86.90	114.22	27
72	0.267	17.8	83.46	113.56	30
73	0.256	16.4	80.02	112.93	33
74	0.244	14.9	76.27	112.35	36
75	0.231	13.3	72.21	111.81	40
76	0.218	11.9	68.14	111.31	43
77	0.205	10.5	64.08	110.84	47
78	0.191	9.1	59.70	110.41	51
79	0.177	7.8	55.33	110.02	55
80	0.162	6.6	50.64	109.67	59
81	0.148	5.5	46.26	109.35	63
82	0.132	4.4	41.26	109.06	68
83	0.117	3.4	36.57	108.81	72
84	0.101	2.6	31.57	108.59	77
85	0.085	1.8	26.57	108.41	82
86	0.069	1.2	21.57	108.26	87
87	0.052	0.7	16.25	108.15	92
88	0.036	0.3	11.25	108.07	97
89	0.018	0.1	5.63	108.02	102
90	0.000	0.0	0.00	108.00	108

**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