



**KATHREIN**  
**SCALA DIVISION**

Post Office Box 4580  
Medford, OR 97501 (USA)  
Phone: (541) 779-6500  
Fax: (541) 779-3991  
<http://www.kathrein-scala.com>

two CL-FM Log-periodic Antenna

Broadband 88-108 MHz

Gain: 9.5 dBd (x 8.9)

Vertical Polarization

Vertical plane Pattern

vertical spacing 0.94 wavelength



two CL-FM Log-periodic Antenna  
 Broadband 88-108 MHz  
 Gain: 9.5 dBd (x 8.9)  
 Vertical Polarization

Vertical plane Pattern  
 vertical spacing 0.94 wavelength

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
-90	0.010	-40.00	-30.50	0.00	-45	0.178	-14.99	-5.49	0.28
-89	0.010	-40.00	-30.50	0.00	-44	0.177	-15.06	-5.56	0.28
-88	0.010	-40.00	-30.50	0.00	-43	0.173	-15.23	-5.73	0.27
-87	0.010	-40.00	-30.50	0.00	-42	0.168	-15.50	-6.00	0.25
-86	0.010	-40.00	-30.50	0.00	-41	0.161	-15.89	-6.39	0.23
-85	0.010	-40.00	-30.50	0.00	-40	0.151	-16.41	-6.91	0.20
-84	0.010	-40.00	-30.50	0.00	-39	0.139	-17.17	-7.67	0.17
-83	0.010	-40.00	-30.50	0.00	-38	0.124	-18.13	-8.63	0.14
-82	0.010	-40.00	-30.50	0.00	-37	0.108	-19.36	-9.86	0.10
-81	0.010	-40.00	-30.50	0.00	-36	0.089	-20.98	-11.48	0.07
-80	0.010	-40.00	-30.50	0.00	-35	0.069	-23.22	-13.72	0.04
-79	0.010	-40.00	-30.50	0.00	-34	0.047	-26.64	-17.14	0.02
-78	0.010	-40.00	-30.50	0.00	-33	0.022	-33.02	-23.52	0.00
-77	0.010	-40.00	-30.50	0.00	-32	0.010	-40.00	-30.50	0.00
-76	0.010	-40.00	-30.50	0.00	-31	0.031	-30.08	-20.58	0.01
-75	0.010	-40.00	-30.50	0.00	-30	0.061	-24.33	-14.83	0.03
-74	0.011	-38.82	-29.32	0.00	-29	0.092	-20.73	-11.23	0.08
-73	0.013	-37.52	-28.02	0.00	-28	0.125	-18.07	-8.57	0.14
-72	0.015	-36.41	-26.91	0.00	-27	0.159	-15.95	-6.45	0.23
-71	0.017	-35.44	-25.94	0.00	-26	0.196	-14.17	-4.67	0.34
-70	0.019	-34.58	-25.08	0.00	-25	0.233	-12.65	-3.15	0.48
-69	0.023	-32.70	-23.20	0.00	-24	0.272	-11.32	-1.82	0.66
-68	0.028	-31.19	-21.69	0.01	-23	0.311	-10.13	-0.63	0.86
-67	0.032	-29.92	-20.42	0.01	-22	0.352	-9.07	0.43	1.11
-66	0.036	-28.84	-19.34	0.01	-21	0.394	-8.10	1.40	1.38
-65	0.040	-27.91	-18.41	0.01	-20	0.436	-7.21	2.29	1.70
-64	0.047	-26.59	-17.09	0.02	-19	0.478	-6.41	3.09	2.04
-63	0.053	-25.48	-15.98	0.03	-18	0.520	-5.68	3.82	2.41
-62	0.059	-24.53	-15.03	0.03	-17	0.562	-5.00	4.50	2.82
-61	0.065	-23.70	-14.20	0.04	-16	0.604	-4.38	5.12	3.25
-60	0.071	-22.99	-13.49	0.04	-15	0.646	-3.79	5.71	3.72
-59	0.081	-21.82	-12.32	0.06	-14	0.684	-3.29	6.21	4.18
-58	0.091	-20.84	-11.34	0.07	-13	0.722	-2.83	6.67	4.65
-57	0.100	-20.01	-10.51	0.09	-12	0.759	-2.40	7.10	5.13
-56	0.108	-19.30	-9.80	0.10	-11	0.794	-2.01	7.49	5.62
-55	0.116	-18.69	-9.19	0.12	-10	0.828	-1.64	7.86	6.11
-54	0.127	-17.92	-8.42	0.14	-9	0.856	-1.35	8.15	6.53
-53	0.137	-17.28	-7.78	0.17	-8	0.882	-1.09	8.41	6.93
-52	0.145	-16.74	-7.24	0.19	-7	0.906	-0.86	8.64	7.32
-51	0.153	-16.30	-6.80	0.21	-6	0.928	-0.65	8.85	7.67
-50	0.159	-15.95	-6.45	0.23	-5	0.948	-0.47	9.03	8.00
-49	0.166	-15.58	-6.08	0.25	-4	0.963	-0.33	9.17	8.27
-48	0.172	-15.30	-5.80	0.26	-3	0.976	-0.21	9.29	8.49
-47	0.176	-15.11	-5.61	0.27	-2	0.987	-0.12	9.38	8.68
-46	0.178	-15.01	-5.51	0.28	-1	0.995	-0.05	9.45	8.82
					0	1.000	0.00	9.50	8.91



two CL-FM Log-periodic Antenna  
 Broadband 88-108 MHz  
 Gain: 9.5 dBd (x 8.9)  
 Vertical Polarization

Vertical plane Pattern  
 vertical spacing 0.94 wavelength

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	9.50	8.91	45	0.178	-14.99	-5.49	0.28
1	0.995	-0.05	9.45	8.82	46	0.178	-15.01	-5.51	0.28
2	0.987	-0.12	9.38	8.68	47	0.176	-15.11	-5.61	0.27
3	0.976	-0.21	9.29	8.49	48	0.172	-15.30	-5.80	0.26
4	0.963	-0.33	9.17	8.27	49	0.166	-15.58	-6.08	0.25
5	0.948	-0.47	9.03	8.00	50	0.159	-15.95	-6.45	0.23
6	0.928	-0.65	8.85	7.67	51	0.153	-16.30	-6.80	0.21
7	0.906	-0.86	8.64	7.32	52	0.145	-16.74	-7.24	0.19
8	0.882	-1.09	8.41	6.93	53	0.137	-17.28	-7.78	0.17
9	0.856	-1.35	8.15	6.53	54	0.127	-17.92	-8.42	0.14
10	0.828	-1.64	7.86	6.11	55	0.116	-18.69	-9.19	0.12
11	0.794	-2.01	7.49	5.62	56	0.108	-19.30	-9.80	0.10
12	0.759	-2.40	7.10	5.13	57	0.100	-20.01	-10.51	0.09
13	0.722	-2.83	6.67	4.65	58	0.091	-20.84	-11.34	0.07
14	0.684	-3.29	6.21	4.18	59	0.081	-21.82	-12.32	0.06
15	0.646	-3.79	5.71	3.72	60	0.071	-22.99	-13.49	0.04
16	0.604	-4.38	5.12	3.25	61	0.065	-23.70	-14.20	0.04
17	0.562	-5.00	4.50	2.82	62	0.059	-24.53	-15.03	0.03
18	0.520	-5.68	3.82	2.41	63	0.053	-25.48	-15.98	0.03
19	0.478	-6.41	3.09	2.04	64	0.047	-26.59	-17.09	0.02
20	0.436	-7.21	2.29	1.70	65	0.040	-27.91	-18.41	0.01
21	0.394	-8.09	1.41	1.38	66	0.036	-28.84	-19.34	0.01
22	0.352	-9.07	0.43	1.11	67	0.032	-29.92	-20.42	0.01
23	0.311	-10.13	-0.63	0.86	68	0.028	-31.19	-21.69	0.01
24	0.272	-11.32	-1.82	0.66	69	0.023	-32.70	-23.20	0.00
25	0.233	-12.65	-3.15	0.48	70	0.019	-34.58	-25.08	0.00
26	0.196	-14.17	-4.67	0.34	71	0.017	-35.44	-25.94	0.00
27	0.159	-15.95	-6.45	0.23	72	0.015	-36.41	-26.91	0.00
28	0.125	-18.07	-8.57	0.14	73	0.013	-37.52	-28.02	0.00
29	0.092	-20.73	-11.23	0.08	74	0.011	-38.82	-29.32	0.00
30	0.061	-24.33	-14.83	0.03	75	0.010	-40.00	-30.50	0.00
31	0.031	-30.08	-20.58	0.01	76	0.010	-40.00	-30.50	0.00
32	0.010	-40.00	-30.50	0.00	77	0.010	-40.00	-30.50	0.00
33	0.022	-33.02	-23.52	0.00	78	0.010	-40.00	-30.50	0.00
34	0.047	-26.64	-17.14	0.02	79	0.010	-40.00	-30.50	0.00
35	0.069	-23.22	-13.72	0.04	80	0.010	-40.00	-30.50	0.00
36	0.089	-20.98	-11.48	0.07	81	0.010	-40.00	-30.50	0.00
37	0.108	-19.36	-9.86	0.10	82	0.010	-40.00	-30.50	0.00
38	0.124	-18.13	-8.63	0.14	83	0.010	-40.00	-30.50	0.00
39	0.139	-17.17	-7.67	0.17	84	0.010	-40.00	-30.50	0.00
40	0.151	-16.41	-6.91	0.20	85	0.010	-40.00	-30.50	0.00
41	0.161	-15.89	-6.39	0.23	86	0.010	-40.00	-30.50	0.00
42	0.168	-15.50	-6.00	0.25	87	0.010	-40.00	-30.50	0.00
43	0.173	-15.23	-5.73	0.27	88	0.010	-40.00	-30.50	0.00
44	0.177	-15.06	-5.56	0.28	89	0.010	-40.00	-30.50	0.00
					90	0.010	-40.00	-30.50	0.00