



YA7-FMH Yagi

FM

Maximum gain: 7.0 dBd

Horizontal polarization

Horizontal radiation pattern

0 degree electrical downtilt



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Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	-0.00	7.00	5.01	45	0.364	-8.78	-1.78	0.66
1	1.000	0.00	7.00	5.01	46	0.344	-9.28	-2.28	0.59
2	0.999	-0.01	6.99	5.00	47	0.324	-9.79	-2.79	0.53
3	0.997	-0.02	6.98	4.98	48	0.305	-10.30	-3.30	0.47
4	0.995	-0.04	6.96	4.96	49	0.289	-10.79	-3.79	0.42
5	0.991	-0.08	6.92	4.92	50	0.269	-11.40	-4.40	0.36
6	0.986	-0.12	6.88	4.88	51	0.251	-12.01	-5.01	0.32
7	0.981	-0.17	6.83	4.82	52	0.236	-12.53	-5.53	0.28
8	0.975	-0.22	6.78	4.77	53	0.219	-13.20	-6.20	0.24
9	0.968	-0.28	6.72	4.69	54	0.202	-13.91	-6.91	0.20
10	0.960	-0.36	6.64	4.62	55	0.188	-14.53	-7.53	0.18
11	0.952	-0.43	6.57	4.54	56	0.171	-15.33	-8.33	0.15
12	0.942	-0.52	6.48	4.45	57	0.157	-16.09	-9.09	0.12
13	0.933	-0.60	6.40	4.36	58	0.144	-16.85	-9.85	0.10
14	0.921	-0.71	6.29	4.25	59	0.129	-17.76	-10.76	0.08
15	0.909	-0.83	6.17	4.14	60	0.118	-18.59	-11.59	0.07
16	0.896	-0.95	6.05	4.02	61	0.106	-19.50	-12.50	0.06
17	0.883	-1.08	5.92	3.91	62	0.093	-20.59	-13.59	0.04
18	0.871	-1.20	5.80	3.80	63	0.084	-21.54	-14.54	0.04
19	0.855	-1.36	5.64	3.66	64	0.073	-22.77	-15.77	0.03
20	0.840	-1.52	5.48	3.53	65	0.061	-24.33	-17.33	0.02
21	0.826	-1.66	5.34	3.42	66	0.055	-25.23	-18.23	0.02
22	0.809	-1.84	5.16	3.28	67	0.045	-26.89	-19.89	0.01
23	0.793	-2.02	4.98	3.15	68	0.037	-28.61	-21.61	0.01
24	0.776	-2.21	4.79	3.01	69	0.033	-29.56	-22.56	0.01
25	0.757	-2.42	4.58	2.87	70	0.024	-32.27	-25.27	0.00
26	0.741	-2.61	4.39	2.75	71	0.016	-35.68	-28.68	0.00
27	0.721	-2.84	4.16	2.60	72	0.011	-39.00	-32.00	0.00
28	0.702	-3.07	3.93	2.47	73	0.008	-42.14	-35.14	0.00
29	0.684	-3.30	3.70	2.34	74	0.005	-45.30	-38.30	0.00
30	0.665	-3.55	3.45	2.21	75	0.005	-45.53	-38.53	0.00
31	0.643	-3.83	3.17	2.07	76	0.009	-41.26	-34.26	0.00
32	0.624	-4.10	2.90	1.95	77	0.009	-41.16	-34.16	0.00
33	0.606	-4.35	2.65	1.84	78	0.011	-39.41	-32.41	0.00
34	0.585	-4.66	2.34	1.71	79	0.015	-36.77	-29.77	0.00
35	0.569	-4.90	2.10	1.62	80	0.015	-36.46	-29.46	0.00
36	0.544	-5.30	1.70	1.48	81	0.015	-36.35	-29.35	0.00
37	0.524	-5.62	1.38	1.37	82	0.018	-34.81	-27.81	0.00
38	0.502	-5.99	1.01	1.26	83	0.018	-34.82	-27.82	0.00
39	0.483	-6.33	0.67	1.17	84	0.018	-34.80	-27.80	0.00
40	0.463	-6.69	0.31	1.07	85	0.016	-35.90	-28.90	0.00
41	0.441	-7.12	-0.12	0.97	86	0.016	-35.93	-28.93	0.00
42	0.423	-7.47	-0.47	0.90	87	0.015	-36.71	-29.71	0.00
43	0.401	-7.93	-0.93	0.81	88	0.014	-36.85	-29.85	0.00
44	0.382	-8.35	-1.35	0.73	89	0.012	-38.24	-31.24	0.00



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90	0.012	-38.44	-31.44	0.00	135	0.068	-23.39	-16.39	0.02
91	0.011	-39.16	-32.16	0.00	136	0.071	-22.93	-15.93	0.03
92	0.008	-42.43	-35.43	0.00	137	0.080	-21.96	-14.96	0.03
93	0.009	-41.24	-34.24	0.00	138	0.082	-21.72	-14.72	0.03
94	0.007	-42.85	-35.85	0.00	139	0.085	-21.40	-14.40	0.04
95	0.008	-42.19	-35.19	0.00	140	0.093	-20.59	-13.59	0.04
96	0.010	-39.84	-32.84	0.00	141	0.096	-20.33	-13.33	0.05
97	0.009	-41.28	-34.28	0.00	142	0.101	-19.91	-12.91	0.05
98	0.012	-38.51	-31.51	0.00	143	0.104	-19.68	-12.68	0.05
99	0.012	-38.13	-31.13	0.00	144	0.113	-18.97	-11.97	0.06
100	0.016	-35.79	-28.79	0.00	145	0.116	-18.68	-11.68	0.07
101	0.019	-34.47	-27.47	0.00	146	0.122	-18.29	-11.29	0.07
102	0.022	-33.03	-26.03	0.00	147	0.126	-17.96	-10.96	0.08
103	0.023	-32.77	-25.77	0.00	148	0.126	-18.00	-11.00	0.08
104	0.026	-31.65	-24.65	0.00	149	0.132	-17.59	-10.59	0.09
105	0.028	-30.97	-23.97	0.00	150	0.138	-17.20	-10.20	0.10
106	0.032	-29.85	-22.85	0.01	151	0.139	-17.12	-10.12	0.10
107	0.031	-30.31	-23.31	0.00	152	0.144	-16.81	-9.81	0.10
108	0.035	-29.16	-22.16	0.01	153	0.148	-16.61	-9.61	0.11
109	0.036	-28.96	-21.96	0.01	154	0.150	-16.50	-9.50	0.11
110	0.039	-28.28	-21.28	0.01	155	0.152	-16.34	-9.34	0.12
111	0.038	-28.50	-21.50	0.01	156	0.155	-16.19	-9.19	0.12
112	0.039	-28.07	-21.07	0.01	157	0.158	-16.00	-9.00	0.13
113	0.040	-28.01	-21.01	0.01	158	0.165	-15.63	-8.63	0.14
114	0.039	-28.10	-21.10	0.01	159	0.164	-15.69	-8.69	0.14
115	0.041	-27.75	-20.75	0.01	160	0.175	-15.15	-8.15	0.15
116	0.041	-27.79	-20.79	0.01	161	0.164	-15.72	-8.72	0.13
117	0.041	-27.72	-20.72	0.01	162	0.167	-15.56	-8.56	0.14
118	0.042	-27.61	-20.61	0.01	163	0.168	-15.51	-8.51	0.14
119	0.041	-27.78	-20.78	0.01	164	0.172	-15.31	-8.31	0.15
120	0.042	-27.45	-20.45	0.01	165	0.173	-15.24	-8.24	0.15
121	0.041	-27.78	-20.78	0.01	166	0.172	-15.29	-8.29	0.15
122	0.042	-27.55	-20.55	0.01	167	0.172	-15.27	-8.27	0.15
123	0.044	-27.13	-20.13	0.01	168	0.175	-15.15	-8.15	0.15
124	0.042	-27.53	-20.53	0.01	169	0.176	-15.11	-8.11	0.15
125	0.041	-27.77	-20.77	0.01	170	0.173	-15.22	-8.22	0.15
126	0.046	-26.73	-19.73	0.01	171	0.172	-15.31	-8.31	0.15
127	0.046	-26.78	-19.78	0.01	172	0.173	-15.22	-8.22	0.15
128	0.049	-26.17	-19.17	0.01	173	0.175	-15.14	-8.14	0.15
129	0.050	-25.97	-18.97	0.01	174	0.173	-15.22	-8.22	0.15
130	0.050	-25.93	-18.93	0.01	175	0.177	-15.05	-8.05	0.16
131	0.057	-24.93	-17.93	0.02	176	0.174	-15.19	-8.19	0.15
132	0.058	-24.77	-17.77	0.02	177	0.174	-15.20	-8.20	0.15
133	0.062	-24.18	-17.18	0.02	178	0.172	-15.28	-8.28	0.15
134	0.062	-24.11	-17.11	0.02	179	0.172	-15.27	-8.27	0.15



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180	0.174	-15.19	-8.19	0.15	225	0.083	-21.61	-14.61	0.03
181	0.172	-15.27	-8.27	0.15	226	0.078	-22.17	-15.17	0.03
182	0.172	-15.28	-8.28	0.15	227	0.078	-22.21	-15.21	0.03
183	0.172	-15.26	-8.26	0.15	228	0.070	-23.10	-16.10	0.02
184	0.172	-15.28	-8.28	0.15	229	0.072	-22.90	-15.90	0.03
185	0.171	-15.32	-8.32	0.15	230	0.064	-23.90	-16.90	0.02
186	0.170	-15.40	-8.40	0.14	231	0.058	-24.66	-17.66	0.02
187	0.169	-15.44	-8.44	0.14	232	0.059	-24.62	-17.62	0.02
188	0.169	-15.46	-8.46	0.14	233	0.052	-25.64	-18.64	0.01
189	0.168	-15.48	-8.48	0.14	234	0.051	-25.93	-18.93	0.01
190	0.168	-15.49	-8.49	0.14	235	0.048	-26.33	-19.33	0.01
191	0.170	-15.40	-8.40	0.14	236	0.044	-27.06	-20.06	0.01
192	0.166	-15.59	-8.59	0.14	237	0.042	-27.53	-20.53	0.01
193	0.167	-15.56	-8.56	0.14	238	0.039	-28.09	-21.09	0.01
194	0.164	-15.71	-8.71	0.13	239	0.042	-27.60	-20.60	0.01
195	0.164	-15.68	-8.68	0.14	240	0.039	-28.21	-21.21	0.01
196	0.164	-15.68	-8.68	0.14	241	0.036	-28.85	-21.85	0.01
197	0.163	-15.75	-8.75	0.13	242	0.038	-28.49	-21.49	0.01
198	0.161	-15.87	-8.87	0.13	243	0.036	-28.88	-21.88	0.01
199	0.161	-15.86	-8.86	0.13	244	0.032	-29.84	-22.84	0.01
200	0.159	-15.96	-8.96	0.13	245	0.035	-29.24	-22.24	0.01
201	0.157	-16.07	-9.07	0.12	246	0.033	-29.54	-22.54	0.01
202	0.157	-16.08	-9.08	0.12	247	0.034	-29.42	-22.42	0.01
203	0.155	-16.20	-9.20	0.12	248	0.034	-29.38	-22.38	0.01
204	0.154	-16.26	-9.26	0.12	249	0.033	-29.55	-22.55	0.01
205	0.151	-16.43	-9.43	0.11	250	0.034	-29.37	-22.37	0.01
206	0.151	-16.45	-9.45	0.11	251	0.032	-30.03	-23.03	0.00
207	0.147	-16.64	-9.64	0.11	252	0.027	-31.34	-24.34	0.00
208	0.144	-16.81	-9.81	0.10	253	0.034	-29.48	-22.48	0.01
209	0.144	-16.82	-9.82	0.10	254	0.029	-30.82	-23.82	0.00
210	0.139	-17.12	-10.12	0.10	255	0.029	-30.75	-23.75	0.00
211	0.136	-17.36	-10.36	0.09	256	0.027	-31.21	-24.21	0.00
212	0.134	-17.47	-10.47	0.09	257	0.025	-32.04	-25.04	0.00
213	0.131	-17.66	-10.66	0.09	258	0.027	-31.43	-24.43	0.00
214	0.127	-17.95	-10.95	0.08	259	0.021	-33.51	-26.51	0.00
215	0.123	-18.21	-11.21	0.08	260	0.023	-32.60	-25.60	0.00
216	0.121	-18.34	-11.34	0.07	261	0.021	-33.57	-26.57	0.00
217	0.116	-18.69	-11.69	0.07	262	0.020	-33.96	-26.96	0.00
218	0.113	-18.92	-11.92	0.06	263	0.020	-33.96	-26.96	0.00
219	0.109	-19.29	-12.29	0.06	264	0.016	-35.89	-28.89	0.00
220	0.106	-19.53	-12.53	0.06	265	0.016	-36.17	-29.17	0.00
221	0.100	-20.02	-13.02	0.05	266	0.015	-36.77	-29.77	0.00
222	0.096	-20.35	-13.35	0.05	267	0.016	-35.86	-28.86	0.00
223	0.093	-20.60	-13.60	0.04	268	0.013	-38.04	-31.04	0.00
224	0.088	-21.06	-14.06	0.04	269	0.009	-41.17	-34.17	0.00



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Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
270	0.010	-40.16	-33.16	0.00	315	0.332	-9.57	-2.57	0.55
271	0.007	-42.83	-35.83	0.00	316	0.352	-9.06	-2.06	0.62
272	0.005	-46.10	-39.10	0.00	317	0.371	-8.61	-1.61	0.69
273	0.003	-50.01	-43.01	0.00	318	0.392	-8.12	-1.12	0.77
274	0.003	-50.38	-43.38	0.00	319	0.414	-7.67	-0.67	0.86
275	0.004	-47.23	-40.23	0.00	320	0.433	-7.27	-0.27	0.94
276	0.005	-45.39	-38.39	0.00	321	0.454	-6.87	0.13	1.03
277	0.008	-42.37	-35.37	0.00	322	0.475	-6.47	0.53	1.13
278	0.009	-41.20	-34.20	0.00	323	0.496	-6.09	0.91	1.23
279	0.010	-39.82	-32.82	0.00	324	0.519	-5.70	1.30	1.35
280	0.012	-38.27	-31.27	0.00	325	0.541	-5.34	1.66	1.46
281	0.011	-38.84	-31.84	0.00	326	0.561	-5.03	1.97	1.58
282	0.015	-36.35	-29.35	0.00	327	0.582	-4.70	2.30	1.70
283	0.013	-37.58	-30.58	0.00	328	0.602	-4.41	2.59	1.82
284	0.015	-36.39	-29.39	0.00	329	0.623	-4.11	2.89	1.95
285	0.015	-36.53	-29.53	0.00	330	0.645	-3.81	3.19	2.09
286	0.020	-33.81	-26.81	0.00	331	0.667	-3.52	3.48	2.23
287	0.020	-33.91	-26.91	0.00	332	0.685	-3.29	3.71	2.35
288	0.024	-32.35	-25.35	0.00	333	0.706	-3.02	3.98	2.50
289	0.027	-31.36	-24.36	0.00	334	0.725	-2.80	4.20	2.63
290	0.032	-29.96	-22.96	0.01	335	0.744	-2.57	4.43	2.77
291	0.036	-28.90	-21.90	0.01	336	0.762	-2.36	4.64	2.91
292	0.040	-27.90	-20.90	0.01	337	0.780	-2.16	4.84	3.05
293	0.048	-26.44	-19.44	0.01	338	0.798	-1.96	5.04	3.19
294	0.054	-25.42	-18.42	0.01	339	0.814	-1.79	5.21	3.32
295	0.060	-24.49	-17.49	0.02	340	0.830	-1.62	5.38	3.45
296	0.069	-23.26	-16.26	0.02	341	0.846	-1.45	5.55	3.59
297	0.078	-22.18	-15.18	0.03	342	0.861	-1.30	5.70	3.71
298	0.084	-21.47	-14.47	0.04	343	0.875	-1.16	5.84	3.84
299	0.093	-20.59	-13.59	0.04	344	0.889	-1.02	5.98	3.96
300	0.105	-19.61	-12.61	0.05	345	0.901	-0.90	6.10	4.07
301	0.115	-18.76	-11.76	0.07	346	0.913	-0.79	6.21	4.18
302	0.129	-17.76	-10.76	0.08	347	0.924	-0.69	6.31	4.28
303	0.139	-17.11	-10.11	0.10	348	0.936	-0.58	6.42	4.39
304	0.152	-16.35	-9.35	0.12	349	0.945	-0.49	6.51	4.48
305	0.166	-15.60	-8.60	0.14	350	0.954	-0.41	6.59	4.56
306	0.180	-14.90	-7.90	0.16	351	0.962	-0.33	6.67	4.64
307	0.196	-14.18	-7.18	0.19	352	0.969	-0.27	6.73	4.71
308	0.211	-13.50	-6.50	0.22	353	0.977	-0.20	6.80	4.79
309	0.225	-12.94	-5.94	0.25	354	0.982	-0.16	6.84	4.83
310	0.240	-12.39	-5.39	0.29	355	0.987	-0.11	6.89	4.89
311	0.257	-11.80	-4.80	0.33	356	0.992	-0.07	6.93	4.93
312	0.277	-11.15	-4.15	0.39	357	0.995	-0.04	6.96	4.96
313	0.291	-10.74	-3.74	0.42	358	0.998	-0.02	6.98	4.99
314	0.313	-10.08	-3.08	0.49	359	1.000	-0.00	7.00	5.01