



CA2-FM Dipole/Reflector  
 FM  
 4.0 dBd (6.15 dBi)  
 Vertical polarization  
 Horizontal radiation pattern



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Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	4.00	2.51	45	0.673	-3.45	0.55	1.14
1	0.998	-0.02	3.98	2.50	46	0.658	-3.64	0.36	1.09
2	0.996	-0.03	3.97	2.49	47	0.643	-3.83	0.17	1.04
3	0.994	-0.05	3.95	2.48	48	0.629	-4.03	-0.03	0.99
4	0.992	-0.07	3.93	2.47	49	0.615	-4.23	-0.23	0.95
5	0.990	-0.09	3.91	2.46	50	0.600	-4.44	-0.44	0.90
6	0.988	-0.10	3.90	2.45	51	0.583	-4.69	-0.69	0.85
7	0.986	-0.12	3.88	2.44	52	0.566	-4.94	-0.94	0.80
8	0.984	-0.14	3.86	2.43	53	0.549	-5.21	-1.21	0.76
9	0.982	-0.16	3.84	2.42	54	0.532	-5.48	-1.48	0.71
10	0.980	-0.18	3.82	2.41	55	0.515	-5.76	-1.76	0.67
11	0.974	-0.23	3.77	2.38	56	0.494	-6.13	-2.13	0.61
12	0.968	-0.28	3.72	2.35	57	0.473	-6.50	-2.50	0.56
13	0.962	-0.34	3.66	2.32	58	0.452	-6.90	-2.90	0.51
14	0.956	-0.39	3.61	2.30	59	0.431	-7.31	-3.31	0.47
15	0.950	-0.45	3.55	2.27	60	0.410	-7.74	-3.74	0.42
16	0.944	-0.50	3.50	2.24	61	0.389	-8.20	-4.20	0.38
17	0.939	-0.55	3.45	2.21	62	0.368	-8.68	-4.68	0.34
18	0.933	-0.60	3.40	2.19	63	0.347	-9.19	-5.19	0.30
19	0.928	-0.65	3.35	2.16	64	0.326	-9.74	-5.74	0.27
20	0.923	-0.70	3.30	2.14	65	0.305	-10.31	-6.31	0.23
21	0.914	-0.78	3.22	2.10	66	0.281	-11.03	-7.03	0.20
22	0.906	-0.85	3.15	2.06	67	0.257	-11.80	-7.80	0.17
23	0.898	-0.93	3.07	2.03	68	0.233	-12.65	-8.65	0.14
24	0.891	-1.01	2.99	1.99	69	0.209	-13.60	-9.60	0.11
25	0.883	-1.09	2.91	1.96	70	0.185	-14.66	-10.66	0.09
26	0.874	-1.17	2.83	1.92	71	0.164	-15.70	-11.70	0.07
27	0.865	-1.25	2.75	1.88	72	0.143	-16.89	-12.89	0.05
28	0.857	-1.34	2.66	1.84	73	0.122	-18.27	-14.27	0.04
29	0.849	-1.43	2.57	1.81	74	0.101	-19.91	-15.91	0.03
30	0.840	-1.51	2.49	1.77	75	0.080	-21.94	-17.94	0.02
31	0.829	-1.63	2.37	1.73	76	0.070	-23.10	-19.10	0.01
32	0.818	-1.74	2.26	1.68	77	0.060	-24.44	-20.44	0.01
33	0.807	-1.86	2.14	1.64	78	0.050	-26.02	-22.02	0.01
34	0.796	-1.98	2.02	1.59	79	0.040	-27.96	-23.96	0.00
35	0.785	-2.10	1.90	1.55	80	0.030	-30.46	-26.46	0.00
36	0.775	-2.21	1.79	1.51	81	0.028	-31.06	-27.06	0.00
37	0.765	-2.33	1.67	1.47	82	0.026	-31.70	-27.70	0.00
38	0.755	-2.44	1.56	1.43	83	0.024	-32.40	-28.40	0.00
39	0.745	-2.56	1.44	1.39	84	0.022	-33.15	-29.15	0.00
40	0.735	-2.67	1.33	1.36	85	0.020	-33.98	-29.98	0.00
41	0.722	-2.82	1.18	1.31	86	0.020	-33.98	-29.98	0.00
42	0.710	-2.97	1.03	1.27	87	0.020	-33.98	-29.98	0.00
43	0.697	-3.13	0.87	1.22	88	0.020	-33.98	-29.98	0.00
44	0.685	-3.29	0.71	1.18	89	0.020	-33.98	-29.98	0.00



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Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
90	0.020	-33.98	-29.98	0.00	135	0.060	-24.44	-20.44	0.01
91	0.020	-33.98	-29.98	0.00	136	0.073	-22.73	-18.73	0.01
92	0.020	-33.98	-29.98	0.00	137	0.086	-21.31	-17.31	0.02
93	0.020	-33.98	-29.98	0.00	138	0.099	-20.09	-16.09	0.02
94	0.020	-33.98	-29.98	0.00	139	0.112	-19.02	-15.02	0.03
95	0.020	-33.98	-29.98	0.00	140	0.125	-18.06	-14.06	0.04
96	0.020	-33.98	-29.98	0.00	141	0.134	-17.46	-13.46	0.05
97	0.020	-33.98	-29.98	0.00	142	0.143	-16.89	-12.89	0.05
98	0.020	-33.98	-29.98	0.00	143	0.152	-16.36	-12.36	0.06
99	0.020	-33.98	-29.98	0.00	144	0.161	-15.86	-11.86	0.07
100	0.020	-33.98	-29.98	0.00	145	0.170	-15.39	-11.39	0.07
101	0.020	-33.98	-29.98	0.00	146	0.175	-15.14	-11.14	0.08
102	0.020	-33.98	-29.98	0.00	147	0.180	-14.89	-10.89	0.08
103	0.020	-33.98	-29.98	0.00	148	0.185	-14.66	-10.66	0.09
104	0.020	-33.98	-29.98	0.00	149	0.190	-14.42	-10.42	0.09
105	0.020	-33.98	-29.98	0.00	150	0.195	-14.20	-10.20	0.10
106	0.020	-33.98	-29.98	0.00	151	0.199	-14.02	-10.02	0.10
107	0.020	-33.98	-29.98	0.00	152	0.203	-13.85	-9.85	0.10
108	0.020	-33.98	-29.98	0.00	153	0.207	-13.68	-9.68	0.11
109	0.020	-33.98	-29.98	0.00	154	0.211	-13.51	-9.51	0.11
110	0.020	-33.98	-29.98	0.00	155	0.215	-13.35	-9.35	0.12
111	0.020	-33.98	-29.98	0.00	156	0.218	-13.23	-9.23	0.12
112	0.020	-33.98	-29.98	0.00	157	0.221	-13.11	-9.11	0.12
113	0.020	-33.98	-29.98	0.00	158	0.224	-13.00	-9.00	0.13
114	0.020	-33.98	-29.98	0.00	159	0.227	-12.88	-8.88	0.13
115	0.020	-33.98	-29.98	0.00	160	0.230	-12.77	-8.77	0.13
116	0.020	-33.98	-29.98	0.00	161	0.233	-12.65	-8.65	0.14
117	0.020	-33.98	-29.98	0.00	162	0.236	-12.54	-8.54	0.14
118	0.020	-33.98	-29.98	0.00	163	0.239	-12.43	-8.43	0.14
119	0.020	-33.98	-29.98	0.00	164	0.242	-12.32	-8.32	0.15
120	0.020	-33.98	-29.98	0.00	165	0.245	-12.22	-8.22	0.15
121	0.020	-33.98	-29.98	0.00	166	0.246	-12.18	-8.18	0.15
122	0.020	-33.98	-29.98	0.00	167	0.247	-12.15	-8.15	0.15
123	0.020	-33.98	-29.98	0.00	168	0.248	-12.11	-8.11	0.15
124	0.020	-33.98	-29.98	0.00	169	0.249	-12.08	-8.08	0.16
125	0.020	-33.98	-29.98	0.00	170	0.250	-12.04	-8.04	0.16
126	0.021	-33.56	-29.56	0.00	171	0.252	-11.97	-7.97	0.16
127	0.022	-33.15	-29.15	0.00	172	0.254	-11.90	-7.90	0.16
128	0.023	-32.77	-28.77	0.00	173	0.256	-11.84	-7.84	0.16
129	0.024	-32.40	-28.40	0.00	174	0.258	-11.77	-7.77	0.17
130	0.025	-32.04	-28.04	0.00	175	0.260	-11.70	-7.70	0.17
131	0.032	-29.90	-25.90	0.00	176	0.260	-11.70	-7.70	0.17
132	0.039	-28.18	-24.18	0.00	177	0.260	-11.70	-7.70	0.17
133	0.046	-26.74	-22.74	0.01	178	0.260	-11.70	-7.70	0.17
134	0.053	-25.51	-21.51	0.01	179	0.260	-11.70	-7.70	0.17



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180	0.260	-11.70	-7.70	0.17	225	0.060	-24.44	-20.44	0.01
181	0.260	-11.70	-7.70	0.17	226	0.053	-25.51	-21.51	0.01
182	0.260	-11.70	-7.70	0.17	227	0.046	-26.74	-22.74	0.01
183	0.260	-11.70	-7.70	0.17	228	0.039	-28.18	-24.18	0.00
184	0.260	-11.70	-7.70	0.17	229	0.032	-29.90	-25.90	0.00
185	0.260	-11.70	-7.70	0.17	230	0.025	-32.04	-28.04	0.00
186	0.258	-11.77	-7.77	0.17	231	0.024	-32.40	-28.40	0.00
187	0.256	-11.84	-7.84	0.16	232	0.023	-32.77	-28.77	0.00
188	0.254	-11.90	-7.90	0.16	233	0.022	-33.15	-29.15	0.00
189	0.252	-11.97	-7.97	0.16	234	0.021	-33.56	-29.56	0.00
190	0.250	-12.04	-8.04	0.16	235	0.020	-33.98	-29.98	0.00
191	0.249	-12.08	-8.08	0.16	236	0.020	-33.98	-29.98	0.00
192	0.248	-12.11	-8.11	0.15	237	0.020	-33.98	-29.98	0.00
193	0.247	-12.15	-8.15	0.15	238	0.020	-33.98	-29.98	0.00
194	0.246	-12.18	-8.18	0.15	239	0.020	-33.98	-29.98	0.00
195	0.245	-12.22	-8.22	0.15	240	0.020	-33.98	-29.98	0.00
196	0.242	-12.32	-8.32	0.15	241	0.020	-33.98	-29.98	0.00
197	0.239	-12.43	-8.43	0.14	242	0.020	-33.98	-29.98	0.00
198	0.236	-12.54	-8.54	0.14	243	0.020	-33.98	-29.98	0.00
199	0.233	-12.65	-8.65	0.14	244	0.020	-33.98	-29.98	0.00
200	0.230	-12.77	-8.77	0.13	245	0.020	-33.98	-29.98	0.00
201	0.227	-12.88	-8.88	0.13	246	0.020	-33.98	-29.98	0.00
202	0.224	-13.00	-9.00	0.13	247	0.020	-33.98	-29.98	0.00
203	0.221	-13.11	-9.11	0.12	248	0.020	-33.98	-29.98	0.00
204	0.218	-13.23	-9.23	0.12	249	0.020	-33.98	-29.98	0.00
205	0.215	-13.35	-9.35	0.12	250	0.020	-33.98	-29.98	0.00
206	0.211	-13.51	-9.51	0.11	251	0.020	-33.98	-29.98	0.00
207	0.207	-13.68	-9.68	0.11	252	0.020	-33.98	-29.98	0.00
208	0.203	-13.85	-9.85	0.10	253	0.020	-33.98	-29.98	0.00
209	0.199	-14.02	-10.02	0.10	254	0.020	-33.98	-29.98	0.00
210	0.195	-14.20	-10.20	0.10	255	0.020	-33.98	-29.98	0.00
211	0.190	-14.42	-10.42	0.09	256	0.020	-33.98	-29.98	0.00
212	0.185	-14.66	-10.66	0.09	257	0.020	-33.98	-29.98	0.00
213	0.180	-14.89	-10.89	0.08	258	0.020	-33.98	-29.98	0.00
214	0.175	-15.14	-11.14	0.08	259	0.020	-33.98	-29.98	0.00
215	0.170	-15.39	-11.39	0.07	260	0.020	-33.98	-29.98	0.00
216	0.161	-15.86	-11.86	0.07	261	0.020	-33.98	-29.98	0.00
217	0.152	-16.36	-12.36	0.06	262	0.020	-33.98	-29.98	0.00
218	0.143	-16.89	-12.89	0.05	263	0.020	-33.98	-29.98	0.00
219	0.134	-17.46	-13.46	0.05	264	0.020	-33.98	-29.98	0.00
220	0.125	-18.06	-14.06	0.04	265	0.020	-33.98	-29.98	0.00
221	0.112	-19.02	-15.02	0.03	266	0.020	-33.98	-29.98	0.00
222	0.099	-20.09	-16.09	0.02	267	0.020	-33.98	-29.98	0.00
223	0.086	-21.31	-17.31	0.02	268	0.020	-33.98	-29.98	0.00
224	0.073	-22.73	-18.73	0.01	269	0.020	-33.98	-29.98	0.00



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Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
270	0.020	-33.98	-29.98	0.00	315	0.673	-3.45	0.55	1.14
271	0.020	-33.98	-29.98	0.00	316	0.685	-3.29	0.71	1.18
272	0.020	-33.98	-29.98	0.00	317	0.697	-3.13	0.87	1.22
273	0.020	-33.98	-29.98	0.00	318	0.710	-2.97	1.03	1.27
274	0.020	-33.98	-29.98	0.00	319	0.722	-2.82	1.18	1.31
275	0.020	-33.98	-29.98	0.00	320	0.735	-2.67	1.33	1.36
276	0.022	-33.15	-29.15	0.00	321	0.745	-2.56	1.44	1.39
277	0.024	-32.40	-28.40	0.00	322	0.755	-2.44	1.56	1.43
278	0.026	-31.70	-27.70	0.00	323	0.765	-2.33	1.67	1.47
279	0.028	-31.06	-27.06	0.00	324	0.775	-2.21	1.79	1.51
280	0.030	-30.46	-26.46	0.00	325	0.785	-2.10	1.90	1.55
281	0.040	-27.96	-23.96	0.00	326	0.796	-1.98	2.02	1.59
282	0.050	-26.02	-22.02	0.01	327	0.807	-1.86	2.14	1.64
283	0.060	-24.44	-20.44	0.01	328	0.818	-1.74	2.26	1.68
284	0.070	-23.10	-19.10	0.01	329	0.829	-1.63	2.37	1.73
285	0.080	-21.94	-17.94	0.02	330	0.840	-1.51	2.49	1.77
286	0.101	-19.91	-15.91	0.03	331	0.849	-1.43	2.57	1.81
287	0.122	-18.27	-14.27	0.04	332	0.857	-1.34	2.66	1.84
288	0.143	-16.89	-12.89	0.05	333	0.865	-1.25	2.75	1.88
289	0.164	-15.70	-11.70	0.07	334	0.874	-1.17	2.83	1.92
290	0.185	-14.66	-10.66	0.09	335	0.883	-1.09	2.91	1.96
291	0.209	-13.60	-9.60	0.11	336	0.891	-1.01	2.99	1.99
292	0.233	-12.65	-8.65	0.14	337	0.898	-0.93	3.07	2.03
293	0.257	-11.80	-7.80	0.17	338	0.906	-0.85	3.15	2.06
294	0.281	-11.03	-7.03	0.20	339	0.914	-0.78	3.22	2.10
295	0.305	-10.31	-6.31	0.23	340	0.923	-0.70	3.30	2.14
296	0.326	-9.74	-5.74	0.27	341	0.928	-0.65	3.35	2.16
297	0.347	-9.19	-5.19	0.30	342	0.933	-0.60	3.40	2.19
298	0.368	-8.68	-4.68	0.34	343	0.939	-0.55	3.45	2.21
299	0.389	-8.20	-4.20	0.38	344	0.944	-0.50	3.50	2.24
300	0.410	-7.74	-3.74	0.42	345	0.950	-0.45	3.55	2.27
301	0.431	-7.31	-3.31	0.47	346	0.956	-0.39	3.61	2.30
302	0.452	-6.90	-2.90	0.51	347	0.962	-0.34	3.66	2.32
303	0.473	-6.50	-2.50	0.56	348	0.968	-0.28	3.72	2.35
304	0.494	-6.13	-2.13	0.61	349	0.974	-0.23	3.77	2.38
305	0.515	-5.76	-1.76	0.67	350	0.980	-0.18	3.82	2.41
306	0.532	-5.48	-1.48	0.71	351	0.982	-0.16	3.84	2.42
307	0.549	-5.21	-1.21	0.76	352	0.984	-0.14	3.86	2.43
308	0.566	-4.94	-0.94	0.80	353	0.986	-0.12	3.88	2.44
309	0.583	-4.69	-0.69	0.85	354	0.988	-0.10	3.90	2.45
310	0.600	-4.44	-0.44	0.90	355	0.990	-0.09	3.91	2.46
311	0.615	-4.23	-0.23	0.95	356	0.992	-0.07	3.93	2.47
312	0.629	-4.03	-0.03	0.99	357	0.994	-0.05	3.95	2.48
313	0.643	-3.83	0.17	1.04	358	0.996	-0.03	3.97	2.49
314	0.658	-3.64	0.36	1.09	359	0.998	-0.02	3.98	2.50