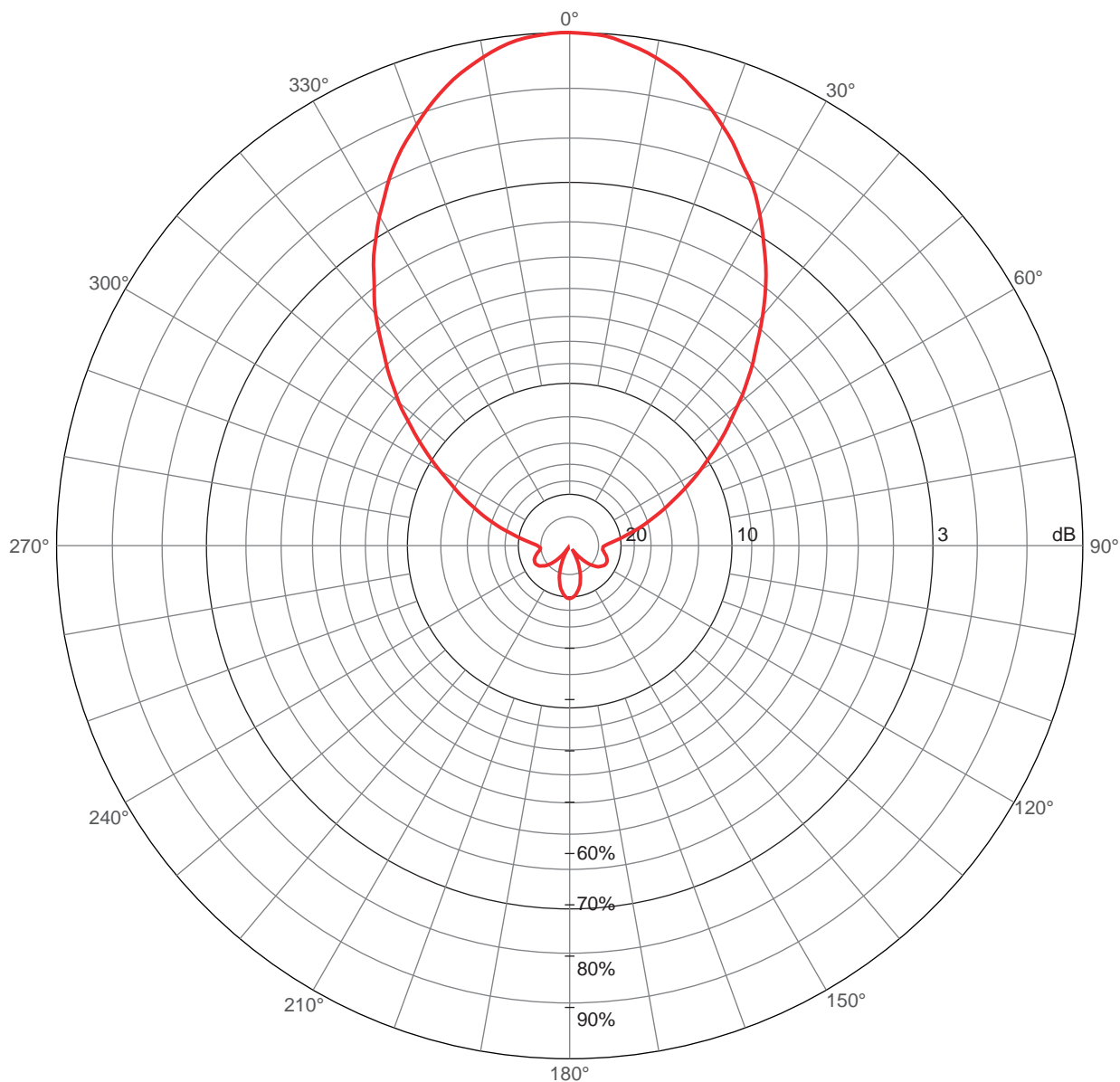


Azimuthal Pattern (polar-linear)



Antenna, Order No. 75010213

Panels per Bay: 1

Frequency: 491 MHz

Azimuthal Directivity: 7.18 dB

Directivity: 13.57 dBd

No.	Azimuth [°]	Radius [mm]	Offset [mm]	Power	Phase [°]
1	0	270	0	1	0

simulation with typical exactness of +/- 8% of max signal

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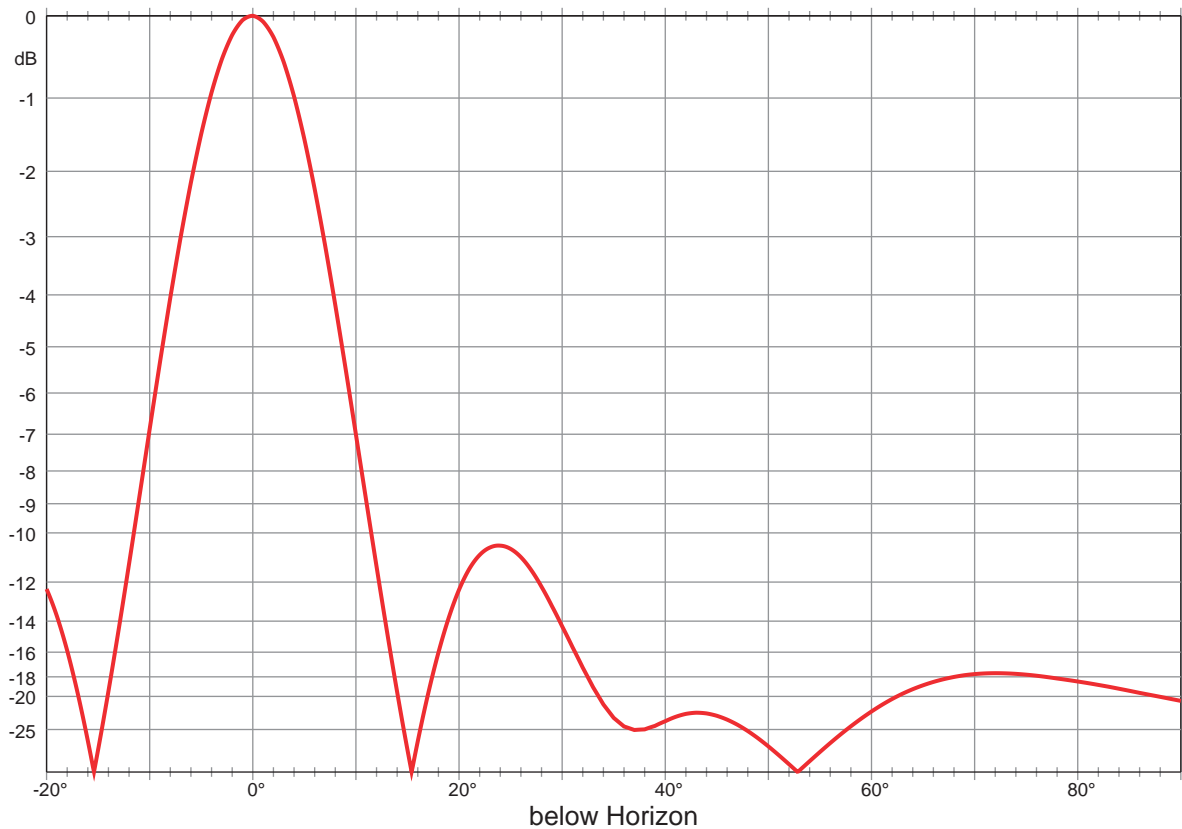
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Elevation Pattern (cartesian-linear)



Antenna, Order No. 75010213

Number of Bays: 2

Frequency: 491 MHz

Elevation Directivity: 6.39 dBd

Directivity: 13.57 dBd

Downtilt: 0°

Compensation: 0 %

No.	Vert. Distance [mm]	Power	Phase [°]
2	1150	1	0
1	0	1	0

Subject to alternation

Azimuthal Pattern

Angle	dB	Angle	dB	Angle	dB	Angle	dB	Angle	dB	Angle	dB	Angle	dB	Angle	dB
0	0	45	-5.93	90	-23.29	135	-26.61	180	-19.74	225	-26.58	270	-24.03	315	-5.9
1	-0.01	46	-6.19	91	-23.56	136	-27.33	181	-19.75	226	-26.02	271	-23.76	316	-5.66
2	-0.01	47	-6.48	92	-23.7	137	-28.18	182	-19.79	227	-25.58	272	-23.38	317	-5.39
3	-0.02	48	-6.75	93	-23.74	138	-29.09	183	-19.84	228	-25.15	273	-22.91	318	-5.13
4	-0.04	49	-7.03	94	-23.74	139	-30.03	184	-19.93	229	-24.73	274	-22.49	319	-4.87
5	-0.07	50	-7.35	95	-23.76	140	-31.03	185	-20.06	230	-24.38	275	-22.05	320	-4.61
6	-0.11	51	-7.68	96	-23.77	141	-32.08	186	-20.2	231	-24.11	276	-21.55	321	-4.37
7	-0.15	52	-7.97	97	-23.77	142	-33.23	187	-20.35	232	-23.89	277	-21.02	322	-4.17
8	-0.2	53	-8.25	98	-23.68	143	-34.61	188	-20.56	233	-23.7	278	-20.52	323	-3.97
9	-0.24	54	-8.56	99	-23.53	144	-36.25	189	-20.79	234	-23.47	279	-20.01	324	-3.76
10	-0.3	55	-8.88	100	-23.39	145	-37.79	190	-20.99	235	-23.22	280	-19.52	325	-3.52
11	-0.36	56	-9.22	101	-23.29	146	-38.86	191	-21.2	236	-23	281	-19.04	326	-3.31
12	-0.42	57	-9.57	102	-23.19	147	-38.86	192	-21.44	237	-22.87	282	-18.54	327	-3.13
13	-0.5	58	-9.93	103	-23.04	148	-37.59	193	-21.73	238	-22.79	283	-17.98	328	-2.96
14	-0.58	59	-10.29	104	-22.87	149	-35.65	194	-22.08	239	-22.71	284	-17.4	329	-2.77
15	-0.68	60	-10.62	105	-22.72	150	-33.76	195	-22.5	240	-22.6	285	-16.9	330	-2.6
16	-0.78	61	-10.98	106	-22.6	151	-32.29	196	-22.93	241	-22.52	286	-16.44	331	-2.44
17	-0.87	62	-11.37	107	-22.49	152	-31.03	197	-23.29	242	-22.49	287	-15.98	332	-2.28
18	-0.97	63	-11.77	108	-22.4	153	-29.74	198	-23.7	243	-22.45	288	-15.5	333	-2.11
19	-1.09	64	-12.17	109	-22.32	154	-28.54	199	-24.22	244	-22.44	289	-15.04	334	-1.94
20	-1.2	65	-12.58	110	-22.23	155	-27.6	200	-24.84	245	-22.48	290	-14.63	335	-1.79
21	-1.31	66	-13	111	-22.15	156	-26.9	201	-25.5	246	-22.52	291	-14.23	336	-1.66
22	-1.43	67	-13.4	112	-22.09	157	-26.27	202	-26.23	247	-22.53	292	-13.82	337	-1.52
23	-1.57	68	-13.79	113	-22.05	158	-25.63	203	-27.05	248	-22.57	293	-13.4	338	-1.41
24	-1.72	69	-14.19	114	-22.03	159	-24.96	204	-27.94	249	-22.66	294	-12.98	339	-1.29
25	-1.85	70	-14.61	115	-22.01	160	-24.32	205	-28.92	250	-22.78	295	-12.56	340	-1.18
26	-1.96	71	-15.06	116	-22.04	161	-23.81	206	-30.03	251	-22.89	296	-12.19	341	-1.07
27	-2.09	72	-15.49	117	-22.07	162	-23.41	207	-31.28	252	-23.01	297	-11.85	342	-0.96
28	-2.24	73	-15.91	118	-22.1	163	-23	208	-32.8	253	-23.16	298	-11.48	343	-0.85
29	-2.41	74	-16.32	119	-22.16	164	-22.55	209	-34.85	254	-23.31	299	-11.08	344	-0.75
30	-2.59	75	-16.76	120	-22.25	165	-22.16	210	-37.65	255	-23.45	300	-10.68	345	-0.66
31	-2.77	76	-17.23	121	-22.38	166	-21.87	211	-41.51	256	-23.6	301	-10.29	346	-0.57
32	-2.96	77	-17.73	122	-22.53	167	-21.61	212	-45.19	257	-23.76	302	-9.92	347	-0.49
33	-3.15	78	-18.24	123	-22.69	168	-21.34	213	-45.35	258	-23.93	303	-9.57	348	-0.42
34	-3.34	79	-18.74	124	-22.82	169	-21.11	214	-42.38	259	-24.11	304	-9.22	349	-0.36
35	-3.53	80	-19.18	125	-22.95	170	-20.92	215	-39.41	260	-24.34	305	-8.87	350	-0.29
36	-3.73	81	-19.6	126	-23.11	171	-20.73	216	-37.02	261	-24.54	306	-8.53	351	-0.23
37	-3.95	82	-20.07	127	-23.32	172	-20.52	217	-34.8	262	-24.64	307	-8.22	352	-0.17
38	-4.17	83	-20.59	128	-23.61	173	-20.34	218	-33	263	-24.69	308	-7.88	353	-0.13
39	-4.41	84	-21.06	129	-23.96	174	-20.19	219	-31.73	264	-24.78	309	-7.53	354	-0.09
40	-4.66	85	-21.48	130	-24.34	175	-20.07	220	-30.69	265	-24.82	310	-7.23	355	-0.06
41	-4.91	86	-21.92	131	-24.67	176	-19.97	221	-29.6	266	-24.78	311	-6.97	356	-0.04
42	-5.18	87	-22.34	132	-25.01	177	-19.9	222	-28.61	267	-24.64	312	-6.7	357	-0.02
43	-5.44	88	-22.69	133	-25.47	178	-19.83	223	-27.87	268	-24.45	313	-6.41	358	-0.01
44	-5.69	89	-22.99	134	-26.02	179	-19.78	224	-27.21	269	-24.25	314	-6.14	359	0

Frequency: 491 MHz
Gain: 13.57 dBd

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Elevation Pattern

Angle	dB	Angle	dB	Angle	dB	Angle	dB	Angle	dB	Angle	dB	Angle	dB	Angle	dB
0	0	45	-22.57	90	-20.53	135	-46.63	180	-24.39	225	-38.37	270	-19.95	315	-23.93
1	-0.07	46	-23.19	91	-20.79	136	-46.31	181	-24.5	226	-39.18	271	-19.76	316	-23.74
2	-0.25	47	-24.08	92	-21.08	137	-45.97	182	-24.74	227	-40.21	272	-19.58	317	-23.84
3	-0.55	48	-25.32	93	-21.37	138	-45.66	183	-25.12	228	-41.53	273	-19.42	318	-24.21
4	-0.98	49	-27.01	94	-21.67	139	-45.23	184	-25.64	229	-43.23	274	-19.27	319	-24.87
5	-1.55	50	-29.4	95	-21.98	140	-44.66	185	-26.31	230	-45.59	275	-19.13	320	-25.74
6	-2.26	51	-33	96	-22.29	141	-43.93	186	-27.1	231	-49.13	276	-19	321	-26.55
7	-3.13	52	-39.72	97	-22.61	142	-43.07	187	-28	232	-55.74	277	-18.87	322	-26.81
8	-4.19	53	-54.09	98	-22.96	143	-42.19	188	-29.06	233	-69.95	278	-18.77	323	-26.07
9	-5.46	54	-36.88	99	-23.32	144	-41.31	189	-30.33	234	-52.57	279	-18.68	324	-24.42
10	-7.01	55	-31.53	100	-23.72	145	-40.63	190	-31.9	235	-47.01	280	-18.61	325	-22.35
11	-8.91	56	-28.32	101	-24.15	146	-39.95	191	-33.87	236	-43.53	281	-18.55	326	-20.29
12	-11.31	57	-26.07	102	-24.57	147	-39.28	192	-36.42	237	-41	282	-18.51	327	-18.42
13	-14.56	58	-24.37	103	-25.01	148	-38.56	193	-39.81	238	-38.98	283	-18.47	328	-16.78
14	-19.52	59	-23.02	104	-25.46	149	-37.96	194	-44.87	239	-37.31	284	-18.44	329	-15.32
15	-30.68	60	-21.93	105	-25.94	150	-37.42	195	-56.1	240	-35.87	285	-18.43	330	-14.05
16	-27.79	61	-21.04	106	-26.42	151	-36.93	196	-53.22	241	-34.62	286	-18.44	331	-12.95
17	-19.72	62	-20.3	107	-26.96	152	-36.51	197	-45.16	242	-33.5	287	-18.46	332	-12.05
18	-16.03	63	-19.7	108	-27.51	153	-36.23	198	-41.47	243	-32.5	288	-18.51	333	-11.34
19	-13.81	64	-19.21	109	-28.09	154	-36.04	199	-39.26	244	-31.59	289	-18.58	334	-10.85
20	-12.36	65	-18.81	110	-28.71	155	-35.96	200	-37.81	245	-30.74	290	-18.7	335	-10.56
21	-11.41	66	-18.48	111	-29.38	156	-35.96	201	-36.78	246	-29.93	291	-18.84	336	-10.47
22	-10.84	67	-18.22	112	-30.08	157	-36.12	202	-36.03	247	-29.16	292	-19.01	337	-10.57
23	-10.55	68	-18.01	113	-30.84	158	-36.43	203	-35.54	248	-28.45	293	-19.23	338	-10.88
24	-10.48	69	-17.86	114	-31.67	159	-36.94	204	-35.22	249	-27.79	294	-19.51	339	-11.43
25	-10.6	70	-17.75	115	-32.58	160	-37.78	205	-35.04	250	-27.19	295	-19.84	340	-12.32
26	-10.93	71	-17.69	116	-33.57	161	-39.07	206	-34.94	251	-26.61	296	-20.25	341	-13.71
27	-11.47	72	-17.67	117	-34.64	162	-41.13	207	-34.92	252	-26.09	297	-20.74	342	-15.89
28	-12.22	73	-17.69	118	-35.83	163	-44.7	208	-34.93	253	-25.57	298	-21.35	343	-19.56
29	-13.17	74	-17.73	119	-37.13	164	-52.69	209	-34.94	254	-25.08	299	-22.09	344	-27.65
30	-14.3	75	-17.8	120	-38.59	165	-55.53	210	-34.95	255	-24.6	300	-22.97	345	-30.56
31	-15.64	76	-17.9	121	-40.27	166	-44.34	211	-34.93	256	-24.15	301	-24.06	346	-19.42
32	-17.2	77	-18.02	122	-42.23	167	-39.3	212	-34.99	257	-23.72	302	-25.4	347	-14.47
33	-19	78	-18.15	123	-44.57	168	-35.95	213	-34.97	258	-23.31	303	-27.11	348	-11.2
34	-20.98	79	-18.29	124	-47.49	169	-33.44	214	-34.97	259	-22.94	304	-29.37	349	-8.78
35	-22.9	80	-18.44	125	-51.34	170	-31.43	215	-34.98	260	-22.59	305	-32.58	350	-6.87
36	-24.4	81	-18.6	126	-57.32	171	-29.84	216	-35.01	261	-22.26	306	-37.93	351	-5.32
37	-25.1	82	-18.77	127	-75.19	172	-28.56	217	-35.07	262	-21.94	307	-55.15	352	-4.05
38	-24.98	83	-18.96	128	-61.46	173	-27.52	218	-35.24	263	-21.63	308	-40.8	353	-3.01
39	-24.29	84	-19.16	129	-55.36	174	-26.67	219	-35.44	264	-21.34	309	-34.1	354	-2.16
40	-23.45	85	-19.38	130	-52.27	175	-25.95	220	-35.76	265	-21.06	310	-30.5	355	-1.47
41	-22.74	86	-19.6	131	-50.34	176	-25.36	221	-36.17	266	-20.81	311	-28.12	356	-0.93
42	-22.28	87	-19.82	132	-48.96	177	-24.9	222	-36.63	267	-20.58	312	-26.43	357	-0.51
43	-22.11	88	-20.05	133	-47.94	178	-24.59	223	-37.11	268	-20.36	313	-25.23	358	-0.22
44	-22.21	89	-20.29	134	-47.25	179	-24.43	224	-37.71	269	-20.15	314	-24.42	359	-0.05

Frequency: 491 MHz

Gain: 13.57 dBd

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