





GP-FM Groundplane

FM

Maximum gain: 0.0 dBd

Vertical polarization

Vertical radiation pattern

0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	0.00	1.00	45	0.663	-3.57	-3.57	0.44
1	0.999	-0.01	-0.01	1.00	46	0.650	-3.74	-3.74	0.42
2	0.998	-0.02	-0.02	1.00	47	0.637	-3.92	-3.92	0.41
3	0.996	-0.03	-0.03	0.99	48	0.624	-4.10	-4.10	0.39
4	0.994	-0.05	-0.05	0.99	49	0.610	-4.29	-4.29	0.37
5	0.992	-0.07	-0.07	0.98	50	0.597	-4.48	-4.48	0.36
6	0.990	-0.09	-0.09	0.98	51	0.583	-4.68	-4.68	0.34
7	0.986	-0.12	-0.12	0.97	52	0.570	-4.89	-4.89	0.32
8	0.983	-0.15	-0.15	0.97	53	0.555	-5.11	-5.11	0.31
9	0.979	-0.18	-0.18	0.96	54	0.541	-5.33	-5.33	0.29
10	0.976	-0.21	-0.21	0.95	55	0.527	-5.56	-5.56	0.28
11	0.972	-0.25	-0.25	0.94	56	0.513	-5.79	-5.79	0.26
12	0.967	-0.29	-0.29	0.94	57	0.499	-6.04	-6.04	0.25
13	0.962	-0.33	-0.33	0.93	58	0.485	-6.29	-6.29	0.23
14	0.957	-0.38	-0.38	0.92	59	0.470	-6.56	-6.56	0.22
15	0.952	-0.43	-0.43	0.91	60	0.456	-6.83	-6.83	0.21
16	0.946	-0.48	-0.48	0.90	61	0.441	-7.12	-7.12	0.19
17	0.940	-0.54	-0.54	0.88	62	0.426	-7.41	-7.41	0.18
18	0.933	-0.60	-0.60	0.87	63	0.411	-7.71	-7.71	0.17
19	0.927	-0.66	-0.66	0.86	64	0.397	-8.03	-8.03	0.16
20	0.920	-0.72	-0.72	0.85	65	0.382	-8.36	-8.36	0.15
21	0.913	-0.79	-0.79	0.83	66	0.367	-8.71	-8.71	0.13
22	0.906	-0.86	-0.86	0.82	67	0.352	-9.07	-9.07	0.12
23	0.897	-0.94	-0.94	0.81	68	0.337	-9.45	-9.45	0.11
24	0.889	-1.02	-1.02	0.79	69	0.322	-9.85	-9.85	0.10
25	0.881	-1.10	-1.10	0.78	70	0.307	-10.27	-10.27	0.09
26	0.872	-1.19	-1.19	0.76	71	0.291	-10.71	-10.71	0.08
27	0.863	-1.28	-1.28	0.74	72	0.276	-11.17	-11.17	0.08
28	0.854	-1.37	-1.37	0.73	73	0.261	-11.67	-11.67	0.07
29	0.844	-1.47	-1.47	0.71	74	0.246	-12.19	-12.19	0.06
30	0.835	-1.57	-1.57	0.70	75	0.231	-12.75	-12.75	0.05
31	0.825	-1.67	-1.67	0.68	76	0.215	-13.34	-13.34	0.05
32	0.815	-1.78	-1.78	0.66	77	0.200	-13.98	-13.98	0.04
33	0.805	-1.89	-1.89	0.65	78	0.185	-14.67	-14.67	0.03
34	0.794	-2.00	-2.00	0.63	79	0.169	-15.42	-15.42	0.03
35	0.783	-2.12	-2.12	0.61	80	0.154	-16.25	-16.25	0.02
36	0.772	-2.25	-2.25	0.60	81	0.139	-17.16	-17.16	0.02
37	0.760	-2.38	-2.38	0.58	82	0.123	-18.18	-18.18	0.02
38	0.749	-2.51	-2.51	0.56	83	0.108	-19.34	-19.34	0.01
39	0.737	-2.65	-2.65	0.54	84	0.092	-20.68	-20.68	0.01
40	0.725	-2.79	-2.79	0.53	85	0.077	-22.26	-22.26	0.01
41	0.713	-2.93	-2.93	0.51	86	0.062	-24.20	-24.20	0.00
42	0.701	-3.08	-3.08	0.49	87	0.046	-26.70	-26.70	0.00
43	0.689	-3.24	-3.24	0.47	88	0.031	-30.22	-30.22	0.00
44	0.676	-3.40	-3.40	0.46	89	0.015	-36.24	-36.24	0.00
					90	0.010	-40.00	-40.00	0.00

Ground Plane Vertically Polarized FM Antenna

Frequency =

90.3
105.5

 Mhz
Interfering Contour

105.5

 dBu (50,10)

ERP Watts =

38

Degrees	Rel. Field	Power	Distance to Contour	Degrees	Rel. Field	Power	Distance to Contour
1	1.000	38.0	229.5577	46	0.650	16.1	149.2125
2	0.999	37.9	229.3281	47	0.637	15.4	146.2282
3	0.998	37.8	229.0985	48	0.624	14.8	143.2440
4	0.996	37.7	228.6394	49	0.610	14.1	140.0302
5	0.992	37.4	227.7212	50	0.597	13.5	137.0459
6	0.990	37.2	227.2621	51	0.583	12.9	133.8321
7	0.986	36.9	226.3439	52	0.570	12.3	130.8479
8	0.983	36.7	225.6552	53	0.555	11.7	127.4045
9	0.979	36.4	224.7370	54	0.541	11.1	124.1907
10	0.976	36.2	224.0483	55	0.527	10.6	120.9769
11	0.972	35.9	223.1301	56	0.513	10.0	117.7631
12	0.967	35.5	221.9823	57	0.499	9.5	114.5493
13	0.962	35.2	220.8345	58	0.485	8.9	111.3355
14	0.957	34.8	219.6867	59	0.470	8.4	107.8921
15	0.952	34.4	218.5389	60	0.456	7.9	104.6783
16	0.946	34.0	217.1616	61	0.441	7.4	101.2349
17	0.940	33.6	215.7842	62	0.426	6.9	97.7916
18	0.933	33.1	214.1773	63	0.411	6.4	94.3482
19	0.927	32.7	212.8000	64	0.397	6.0	91.1344
20	0.920	32.2	211.1931	65	0.382	5.5	87.6910
21	0.913	31.7	209.5861	66	0.367	5.1	84.2477
22	0.906	31.2	207.9792	67	0.352	4.7	80.8043
23	0.897	30.6	205.9132	68	0.337	4.3	77.3609
24	0.889	30.0	204.0768	69	0.322	3.9	73.9176
25	0.881	29.5	202.2403	70	0.307	3.6	70.4742
26	0.872	28.9	200.1743	71	0.291	3.2	66.8013
27	0.863	28.3	198.1083	72	0.276	2.9	63.3579
28	0.854	27.7	196.0422	73	0.261	2.6	59.9146
29	0.844	27.1	193.7467	74	0.246	2.3	56.4712
30	0.835	26.5	191.6807	75	0.231	2.0	53.0278
31	0.825	25.9	189.3851	76	0.215	1.8	49.3549
32	0.815	25.2	187.0895	77	0.200	1.5	45.9115
33	0.805	24.6	184.7939	78	0.185	1.3	42.4682
34	0.794	24.0	182.2688	79	0.169	1.1	38.7952
35	0.783	23.3	179.7437	80	0.154	0.9	35.3519
36	0.772	22.6	177.2185	81	0.139	0.7	31.9085
37	0.760	21.9	174.4638	82	0.123	0.6	28.2356
38	0.749	21.3	171.9387	83	0.108	0.4	24.7922
39	0.737	20.6	169.1840	84	0.092	0.3	21.1193
40	0.725	20.0	166.4293	85	0.077	0.2	17.6759
41	0.713	19.3	163.6746	86	0.062	0.1	14.2326
42	0.701	18.7	160.9199	87	0.046	0.1	10.5597
43	0.689	18.0	158.1652	88	0.031	0.0	7.1163
44	0.676	17.4	155.1810	89	0.015	0.0	3.4434
45	0.663	16.7	152.1967	90	0.010	0.0	0.0000