

KEVIN M. FITZGERALD

Freespace Interference Study for a given antenna based on Vertical Radiation Pattern

Antenna Make: SCALA

Antenna Model: FMV-2 2-bay Half-Wave Dipole Array

Depression Angle from Antenna	Antenna Relative Field	ERP Watts	ERP dBk	Distance to Ground from Antenna (km)	Free Space Signal (dBu)	Circular Distance From Tower (m)
90	0.023	0.003	-54.98	0.0480	78.3	0.00
85	0.018	0.002	-57.11	0.0482	76.1	4.20
80	0.060	0.022	-46.66	0.0487	86.5	8.46
75	0.104	0.065	-41.88	0.0497	91.1	12.86
70	0.148	0.131	-38.81	0.0511	93.9	17.47
65	0.189	0.214	-36.69	0.0530	95.8	22.38
60	0.222	0.296	-35.29	0.0554	96.8	27.71
55	0.240	0.346	-34.61	0.0586	96.9	33.61
50	0.235	0.331	-34.80	0.0627	96.2	40.28
45	0.198	0.235	-36.29	0.0679	94.0	48.00
40	0.119	0.085	-40.71	0.0747	88.7	57.20
35	0.010	0.001	-62.22	0.0837	66.2	68.55
30	0.163	0.159	-37.97	0.0960	89.3	83.14
25	0.350	0.735	-31.34	0.1136	94.5	102.94
20	0.545	1.782	-27.49	0.1403	96.5	131.88
15	0.726	3.162	-25.00	0.1855	96.6	179.14
10	0.873	4.573	-23.40	0.2764	94.7	272.22
5	0.967	5.611	-22.51	0.5507	89.6	548.64

Distance to Ground Level assumes flat ground or a site where the ground level is above average terrain in all azimuths.

Maximum ERP 6 watts

Radiation Center AG 0.048 km

Radiation Center AG 157.480 ft.

Max dBu to Ground Level 96.75