

**Off-Axis Spectral Density
Values for AvL 2.4M Offset Antenna
with 65dBW peak EIRP and 36MHz occupied bandwidth**

Value of Theta (degrees)	25.209(a)(1) Co-Pol Gain	Off-Axis EIRP Density allowed under 25.218 (d)	Antenna Off-Axis Gain (dBi) Measured Data	Max off-axis EIRP Density of antenna (dBW/4kHz)	Margin (dB)
1					
1.1					
1.2					
1.3					
1.4					
1.5	24.6	21.9	22.5	5.93	15.97
1.6	23.9	21.2	17.8	1.29	19.91
1.7	23.2	20.5	10.9	-5.66	26.20
1.8	22.6	19.9	2.8	-13.73	33.65
1.9	22.0	19.3	9.5	-7.08	26.41
2	21.5	18.8	12.3	-4.20	22.98
2.1	20.9	18.2	13.4	-3.09	21.34
2.2	20.4	17.7	13.7	-2.79	20.53
2.3	20.0	17.3	12.9	-3.65	20.91
2.4	19.5	16.8	11.6	-4.95	21.75
2.5	19.1	16.4	9.2	-7.37	23.72
2.6	18.6	15.9	6.8	-9.77	25.70
2.7	18.2	15.5	5.3	-11.26	26.78
2.8	17.8	15.1	6.4	-10.10	25.22
2.9	17.4	14.7	8.3	-8.21	22.95
3	17.1	14.4	9.5	-7.05	21.42
3.5	15.4	12.7	8.6	-7.92	20.62
4	13.9	11.2	-9.4	-25.91	37.16
4.5	12.7	10.0	4.8	-11.77	21.74
5	11.5	8.8	-7.8	-24.35	33.18
5.5	10.5	7.8	2.2	-14.38	22.17
6	9.5	6.8	2.0	-14.58	21.43
6.5	8.7	6.0	1.4	-15.11	21.09
7	7.9	5.2	2.6	-13.93	19.10
7.5	7.1	4.4	-6.7	-23.20	27.63
8	6.4	3.7	0.0	-16.57	20.29
8.5	5.8	3.1	-1.8	-18.32	21.39
9	5.1	2.4	-7.8	-24.36	26.81
10	4.0	1.3	-8.9	-25.41	26.71
15	-0.4	-3.1	-6.5	-23.03	19.93
20	-3.5	-6.2	-12.2	-28.68	22.46
25	-5.9	-8.6	-14.6	-31.14	22.49
30	-7.9	-10.6	-12.1	-28.64	18.01
35	-9.6	-12.3	-9.7	-26.20	13.90
40	-11.1	-13.8	-16.6	-33.08	19.33
45	-12.3	-15.0	-15.0	-31.57	16.54
48	-13.0	-15.7	-21.1	-37.62	21.89
50	-13.5	-16.2	-31.5	-47.98	31.81
60	-10.0	-12.7	-17.5	-34.02	21.32
70	-10.0	-12.7	-20.9	-37.40	24.70
80	-10.0	-12.7	-28.7	-45.20	32.50
90	-10.0	-12.7	-23.2	-39.70	27.00
100	-10.0	-12.7	-18.7	-35.24	22.54
120	-10.0	-12.7	-19.5	-36.06	23.36
140	-10.0	-12.7	-14.0	-30.52	17.82
160	-10.0	-12.7	-2.9	-19.42	6.72
180	-10.0	-12.7	0.1	-16.38	3.68