

|                                                             |        |        |        |        |        |        |        |        |        |        |        |
|-------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <div><div></div><div>Dipole Communications LTD.</div></div> |        |        |        |        |        |        |        |        |        |        |        |
| Frequency ID                                                | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
| Frequency (MHz)                                             | 1350.0 | 1380.0 | 1400.0 | 1430.0 | 1450.0 | 1470.0 | 2400.0 | 2430.0 | 2450.0 | 2483.0 | 2500.0 |
| Efficiency (dBi)                                            | -1.89  | -1.78  | -1.56  | -1.58  | -1.36  | -1.43  | -1.20  | -1.81  | -1.67  | -1.34  | -1.29  |
| Gain (dBi)                                                  | 2.25   | 2.30   | 2.45   | 2.30   | 2.00   | 1.74   | 2.24   | 1.76   | 1.79   | 2.64   | 2.82   |
| Efficiency (%)                                              | 64.78  | 66.35  | 69.86  | 69.47  | 73.08  | 72.01  | 75.78  | 65.88  | 68.04  | 73.39  | 74.34  |
| Directivity (dB)                                            | 4.14   | 4.08   | 4.01   | 3.88   | 3.36   | 3.16   | 3.45   | 3.57   | 3.46   | 3.98   | 4.11   |
| Peak Gain Position (Theta)                                  | 67.00  | 149.00 | 147.00 | 65.00  | 67.00  | 67.00  | 67.00  | 68.00  | 68.00  | 68.00  | 68.00  |
| Peak Gain Position (Phi)                                    | 78.00  | 45.00  | 44.00  | 86.00  | 80.00  | 78.00  | 335.00 | 276.00 | 275.00 | 273.00 | 272.00 |
| Efficiency ThetaPol (%)                                     | 40.36  | 41.30  | 44.21  | 45.11  | 49.18  | 49.84  | 66.17  | 57.34  | 59.56  | 64.94  | 66.06  |
| Efficiency PhiPol (%)                                       | 24.41  | 25.05  | 25.64  | 24.36  | 23.90  | 22.17  | 9.61   | 8.54   | 8.48   | 8.45   | 8.28   |
| Upper Hem. Efficiency (%)                                   | 33.85  | 32.02  | 33.06  | 35.42  | 37.70  | 36.46  | 40.83  | 36.09  | 36.40  | 40.03  | 40.96  |
| Lower Hem. Efficiency (%)                                   | 30.93  | 34.33  | 36.80  | 34.05  | 35.38  | 35.55  | 34.94  | 29.79  | 31.64  | 33.36  | 33.38  |
| T90(H)圆度                                                    | 5.56   | 4.18   | 3.53   | 2.56   | 2.16   | 2.45   | 2.61   | 2.29   | 2.20   | 2.08   | 2.10   |
| Gain 15deg (dBi)                                            |        |        |        |        |        |        |        |        |        |        |        |
| E1(XZ)波瓣宽度                                                  | 21.00  | 15.00  | 35.00  | 51.00  | 48.00  | 44.00  | 109.00 | 94.00  | 45.00  | 92.00  | 91.00  |
| E1(XZ)前后比                                                   | 3.51   | 1.57   | 0.67   | 1.20   | 1.11   | 0.82   | 3.42   | 3.49   | 4.11   | 4.28   | 5.18   |
| E2(YZ)波瓣宽度                                                  | 17.00  | 15.00  | 31.00  | 18.00  | 19.00  | 19.00  | 59.00  | 56.00  | 55.00  | 49.00  | 49.00  |
| E2(YZ)前后比                                                   | 2.54   | 1.60   | 1.53   | 2.17   | 1.66   | 2.52   | 2.99   | 2.37   | 2.87   | 3.66   | 3.22   |
| 最大增益处轴比(P)                                                  | 18.01  | 16.99  | 21.38  | 23.23  | 19.35  | 15.29  | 9.11   | 17.76  | 18.28  | 15.32  | 14.68  |
| 仰角10度最差(大)轴比(P)                                             | 64.48  | 59.02  | 45.97  | 50.99  | 53.83  | 44.76  | 51.60  | 49.04  | 49.46  | 60.84  | 53.08  |
| Hc(XY)波瓣宽度                                                  | 264.00 | 287.00 | 332.00 | 360.00 | 360.00 | 360.00 | 360.00 | 360.00 | 360.00 | 360.00 | 360.00 |
| Hc(XY)前后比                                                   | 4.43   | 2.63   | 1.61   | 1.29   | 1.27   | 1.69   | 0.37   | 0.23   | 0.58   | 0.00   | 0.00   |
| 左旋圆极化效率(%)                                                  | 29.35  | 30.32  | 32.29  | 32.89  | 35.95  | 36.29  | 30.30  | 26.30  | 27.40  | 29.53  | 29.93  |
| 右旋圆极化效率(%)                                                  | 35.43  | 36.03  | 37.57  | 36.58  | 37.13  | 35.72  | 45.48  | 39.58  | 40.65  | 43.86  | 44.41  |
|                                                             |        |        |        |        |        |        |        |        |        |        |        |
| Empty                                                       |        |        |        |        |        |        |        |        |        |        |        |





