

RADIATION PATTERN ENVELOPE

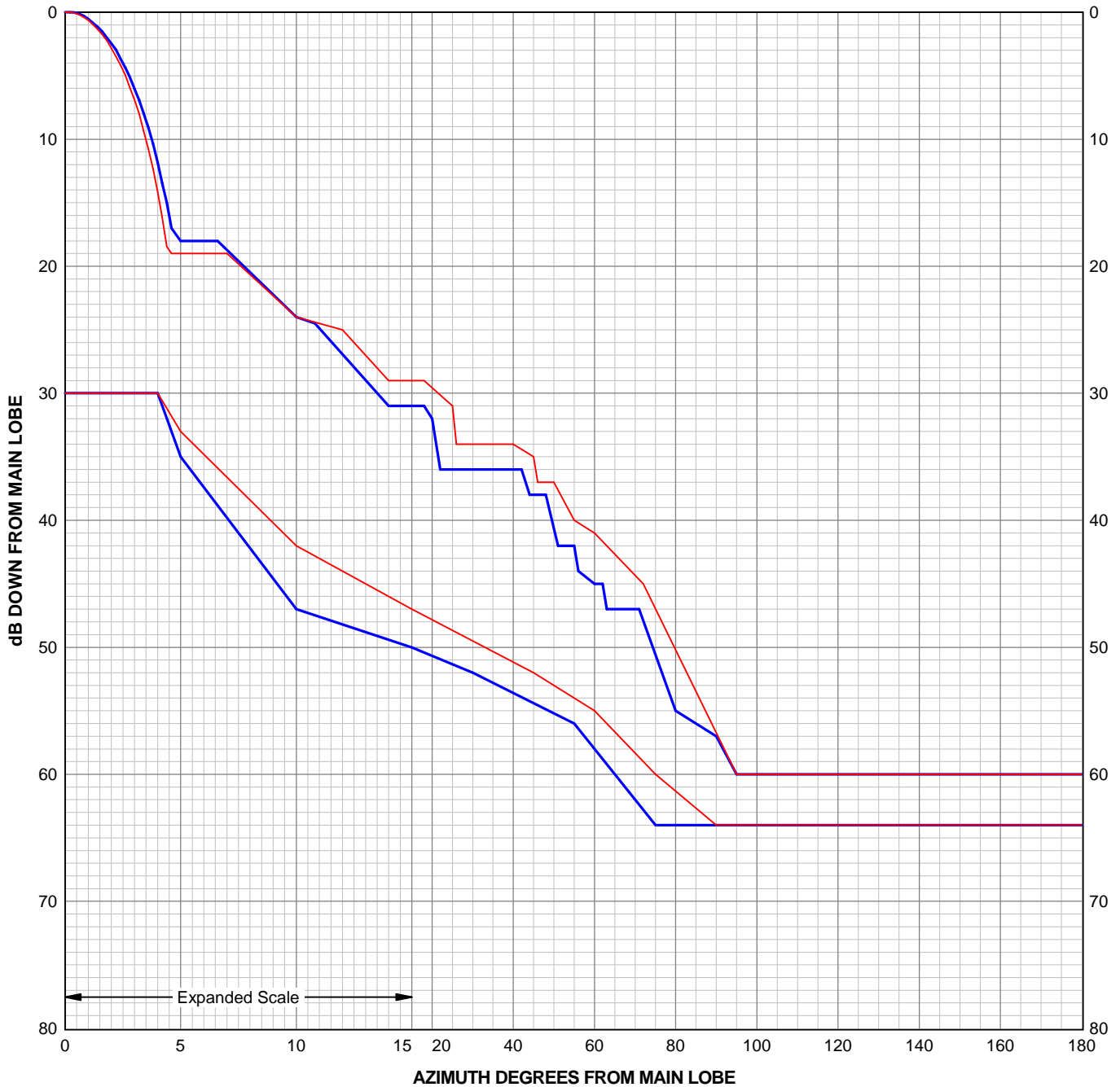
Antenna Type Number: VHLPX1-15
1.00 Foot Antenna 14.400-15.350 GHz Dual Polarized
Gain: 32.70 dBi at 14.875 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7007C

Engineering Approved:
25 May 2016

ANDREW CORPORATION



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 Gain: 32.70 dBi at 14.875 GHz
 RPE: 7007C
 Engineering Approved: 25 May 2016



| Angle | H/H dB | Angle | H/V dB | Angle | V/V dB | Angle | V/H dB |
|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| 0.00 | 0.00 | 0.00 | -30.00 | 0.00 | 0.00 | 0.00 | -30.00 |
| 0.20 | 0.00 | 4.00 | -30.00 | 0.20 | 0.00 | 4.00 | -30.00 |
| 0.40 | -0.03 | 5.00 | -35.00 | 0.40 | -0.07 | 5.00 | -33.00 |
| 0.60 | -0.13 | 10.00 | -47.00 | 0.60 | -0.19 | 10.00 | -42.00 |
| 0.80 | -0.28 | 15.00 | -50.00 | 0.80 | -0.38 | 15.00 | -47.00 |
| 1.00 | -0.53 | 30.00 | -52.00 | 1.00 | -0.63 | 45.00 | -52.00 |
| 1.20 | -0.84 | 55.00 | -56.00 | 1.20 | -0.96 | 60.00 | -55.00 |
| 1.40 | -1.15 | 75.00 | -64.00 | 1.40 | -1.33 | 75.00 | -60.00 |
| 1.60 | -1.52 | 180.00 | -64.00 | 1.60 | -1.75 | 90.00 | -64.00 |
| 1.80 | -2.00 | | | 1.80 | -2.23 | 180.00 | -64.00 |
| 2.00 | -2.47 | | | 2.00 | -2.84 | | |
| 2.20 | -2.96 | | | 2.20 | -3.48 | | |
| 2.40 | -3.69 | | | 2.40 | -4.18 | | |
| 2.60 | -4.36 | | | 2.60 | -4.96 | | |
| 2.80 | -5.10 | | | 2.80 | -5.93 | | |
| 3.00 | -6.03 | | | 3.00 | -6.90 | | |
| 3.20 | -6.94 | | | 3.20 | -8.01 | | |
| 3.40 | -7.96 | | | 3.40 | -9.36 | | |
| 3.60 | -9.06 | | | 3.60 | -10.75 | | |
| 3.80 | -10.34 | | | 3.80 | -12.30 | | |
| 4.00 | -11.84 | | | 4.00 | -14.15 | | |
| 4.20 | -13.44 | | | 4.20 | -16.13 | | |
| 4.40 | -15.00 | | | 4.40 | -18.47 | | |
| 4.60 | -17.00 | | | 4.60 | -19.00 | | |
| 5.00 | -18.00 | | | 5.00 | -19.00 | | |
| 6.60 | -18.00 | | | 7.00 | -19.00 | | |
| 10.00 | -24.00 | | | 10.00 | -24.00 | | |
| 10.80 | -24.50 | | | 12.00 | -25.00 | | |
| 14.00 | -31.00 | | | 14.00 | -29.00 | | |
| 18.00 | -31.00 | | | 18.00 | -29.00 | | |
| 20.00 | -32.00 | | | 25.00 | -31.00 | | |
| 22.00 | -36.00 | | | 26.00 | -34.00 | | |
| 42.00 | -36.00 | | | 40.00 | -34.00 | | |
| 44.00 | -38.00 | | | 45.00 | -35.00 | | |
| 48.00 | -38.00 | | | 46.00 | -37.00 | | |
| 51.00 | -42.00 | | | 50.00 | -37.00 | | |
| 55.00 | -42.00 | | | 55.00 | -40.00 | | |
| 56.00 | -44.00 | | | 60.00 | -41.00 | | |
| 60.00 | -45.00 | | | 72.00 | -45.00 | | |
| 62.00 | -45.00 | | | 95.00 | -60.00 | | |
| 63.00 | -47.00 | | | 180.00 | -60.00 | | |
| 71.00 | -47.00 | | | | | | |
| 80.00 | -55.00 | | | | | | |
| 90.00 | -57.00 | | | | | | |
| 95.00 | -60.00 | | | | | | |
| 180.00 | -60.00 | | | | | | |

The RPE is defined by connecting these points with straight lines.
 PARALLEL POLARIZATION
 HH - Horizontal port response to a horizontal signal
 VV - Vertical port response to a vertical signal
 CROSS POLARIZATION
 HV - Horizontal port response to a vertical signal
 VH - Vertical port response to a horizontal signal