

RADIATION PATTERN ENVELOPE

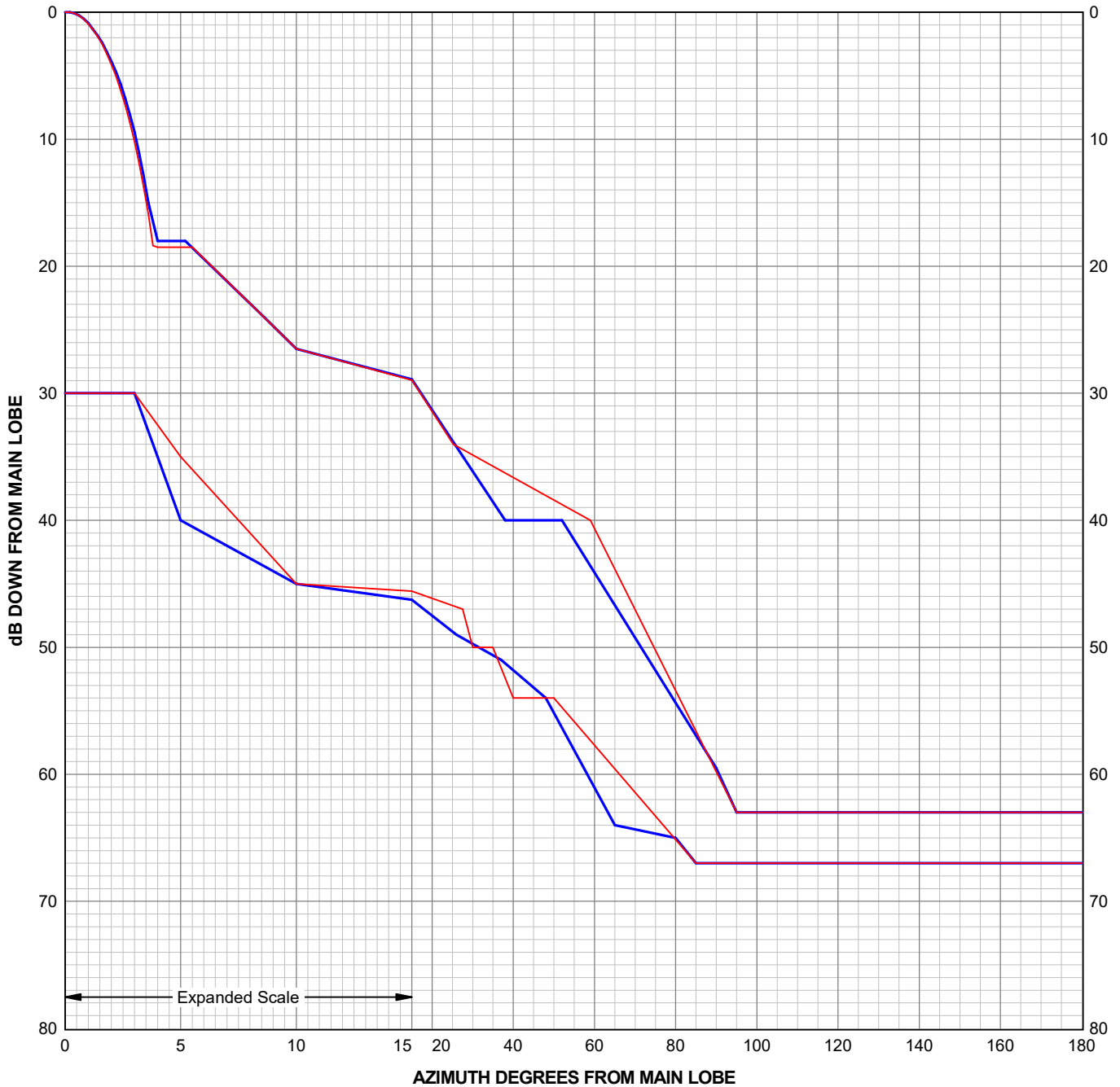
Antenna Type Number: VHLPX1-18
1.00 Foot Antenna 17.700-19.700 GHz Dual Polarized
Gain: 34.60 dBi at 18.700 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7011G

Engineering Approved:
4 June 2025

ANDREW CORPORATION



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 RPE: 7011G
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| 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 | 3.00 | -30.00 | 0.20 | 0.00 | 3.00 | -30.00 |
| 0.40 | -0.08 | 5.00 | -40.00 | 0.40 | -0.09 | 5.00 | -35.00 |
| 0.60 | -0.25 | 10.00 | -45.00 | 0.60 | -0.27 | 10.00 | -45.00 |
| 0.80 | -0.52 | 26.00 | -49.00 | 0.80 | -0.54 | 27.50 | -47.00 |
| 1.00 | -0.87 | 37.00 | -51.00 | 1.00 | -0.93 | 30.00 | -50.00 |
| 1.20 | -1.34 | 48.00 | -54.00 | 1.20 | -1.36 | 35.00 | -50.00 |
| 1.40 | -1.83 | 65.00 | -64.00 | 1.40 | -1.88 | 40.00 | -54.00 |
| 1.60 | -2.40 | 80.00 | -65.00 | 1.60 | -2.50 | 50.00 | -54.00 |
| 1.80 | -3.13 | 85.00 | -67.00 | 1.80 | -3.30 | 85.00 | -67.00 |
| 2.00 | -3.86 | 180.00 | -67.00 | 2.00 | -4.11 | 180.00 | -67.00 |
| 2.20 | -4.69 | | | 2.20 | -5.03 | | |
| 2.40 | -5.66 | | | 2.40 | -6.18 | | |
| 2.60 | -6.84 | | | 2.60 | -7.36 | | |
| 2.80 | -8.05 | | | 2.80 | -8.67 | | |
| 3.00 | -9.41 | | | 3.00 | -10.18 | | |
| 3.20 | -11.13 | | | 3.20 | -11.93 | | |
| 3.40 | -12.90 | | | 3.40 | -13.77 | | |
| 3.60 | -14.98 | | | 3.60 | -15.86 | | |
| 4.00 | -18.00 | | | 3.80 | -18.37 | | |
| 5.20 | -18.00 | | | 4.00 | -18.50 | | |
| 8.60 | -24.00 | | | 5.50 | -18.50 | | |
| 10.00 | -26.50 | | | 10.00 | -26.50 | | |
| 38.00 | -40.00 | | | 25.20 | -34.00 | | |
| 52.00 | -40.00 | | | 59.00 | -40.00 | | |
| 90.00 | -59.50 | | | 95.00 | -63.00 | | |
| 95.00 | -63.00 | | | 180.00 | -63.00 | | |
| 180.00 | -63.00 | | | | | | |

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