

RADIATION PATTERN ENVELOPE

Antenna Type Number: VHLPX1-80C
1.00 Foot Antenna 71.000-86.000 GHz Dual Polarized
Gain: 46.00 dBi at 78.500 GHz

- Envelope for a Horizontally Polarized Antenna (HH, HV)
- Envelope for a Vertically Polarized Antenna (VV, VH)

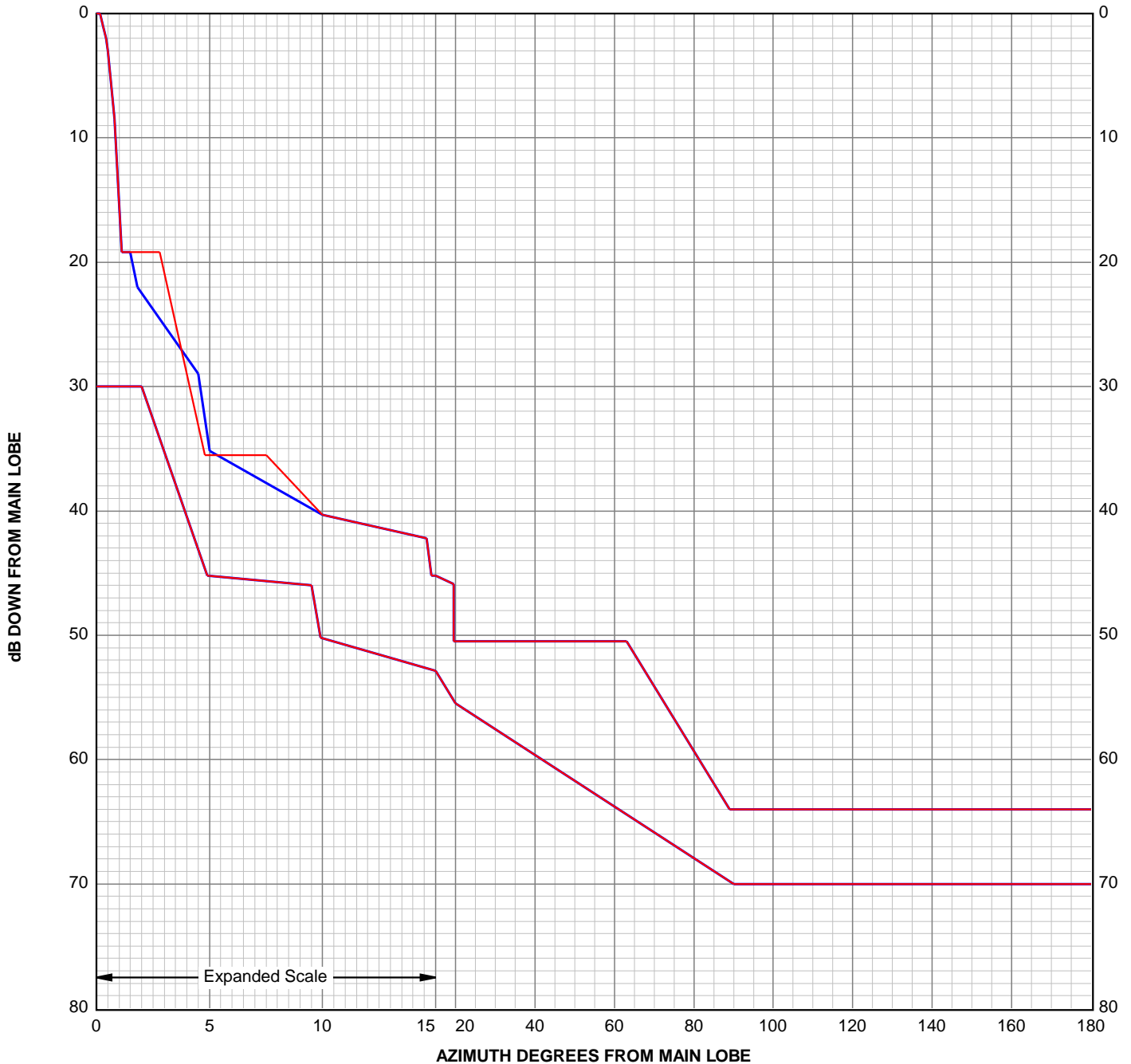
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7450

Engineering Approved:
15 December 2022



Antenna Type Number: VHLPX1-80C
 1.00 Foot Antenna 71.000-86.000 GHz Dual Polarized
 Gain: 46.00 dBi at 78.500 GHz
 RPE: 7450
 Engineering Approved: 15 December 2022



| 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 |
| 0.15 | 0.00 | 2.00 | -30.00 | 0.15 | 0.00 | 2.00 | -30.00 |
| 0.30 | -1.00 | 4.90 | -45.20 | 0.30 | -1.00 | 4.90 | -45.20 |
| 0.42 | -2.00 | 9.50 | -46.00 | 0.42 | -2.00 | 9.50 | -46.00 |
| 0.50 | -3.00 | 9.90 | -50.20 | 0.50 | -3.00 | 9.90 | -50.20 |
| 0.56 | -4.00 | 20.00 | -55.50 | 0.56 | -4.00 | 20.00 | -55.50 |
| 0.62 | -5.00 | 90.00 | -70.00 | 0.62 | -5.00 | 90.00 | -70.00 |
| 0.71 | -7.00 | 180.00 | -70.00 | 0.71 | -7.00 | 180.00 | -70.00 |
| 0.80 | -8.50 | | | 0.80 | -8.50 | | |
| 1.12 | -19.20 | | | 1.12 | -19.20 | | |
| 1.50 | -19.20 | | | 2.80 | -19.20 | | |
| 1.80 | -22.00 | | | 4.80 | -35.50 | | |
| 4.50 | -29.00 | | | 7.50 | -35.50 | | |
| 5.00 | -35.20 | | | 10.00 | -40.30 | | |
| 10.00 | -40.30 | | | 14.60 | -42.20 | | |
| 14.60 | -42.20 | | | 14.80 | -45.20 | | |
| 14.80 | -45.20 | | | 19.50 | -45.90 | | |
| 19.50 | -45.90 | | | 19.50 | -50.50 | | |
| 19.50 | -50.50 | | | 63.00 | -50.50 | | |
| 63.00 | -50.50 | | | 89.00 | -64.00 | | |
| 89.00 | -64.00 | | | 180.00 | -64.00 | | |
| 180.00 | -64.00 | | | | | | |

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