

RADIATION PATTERN ENVELOPE

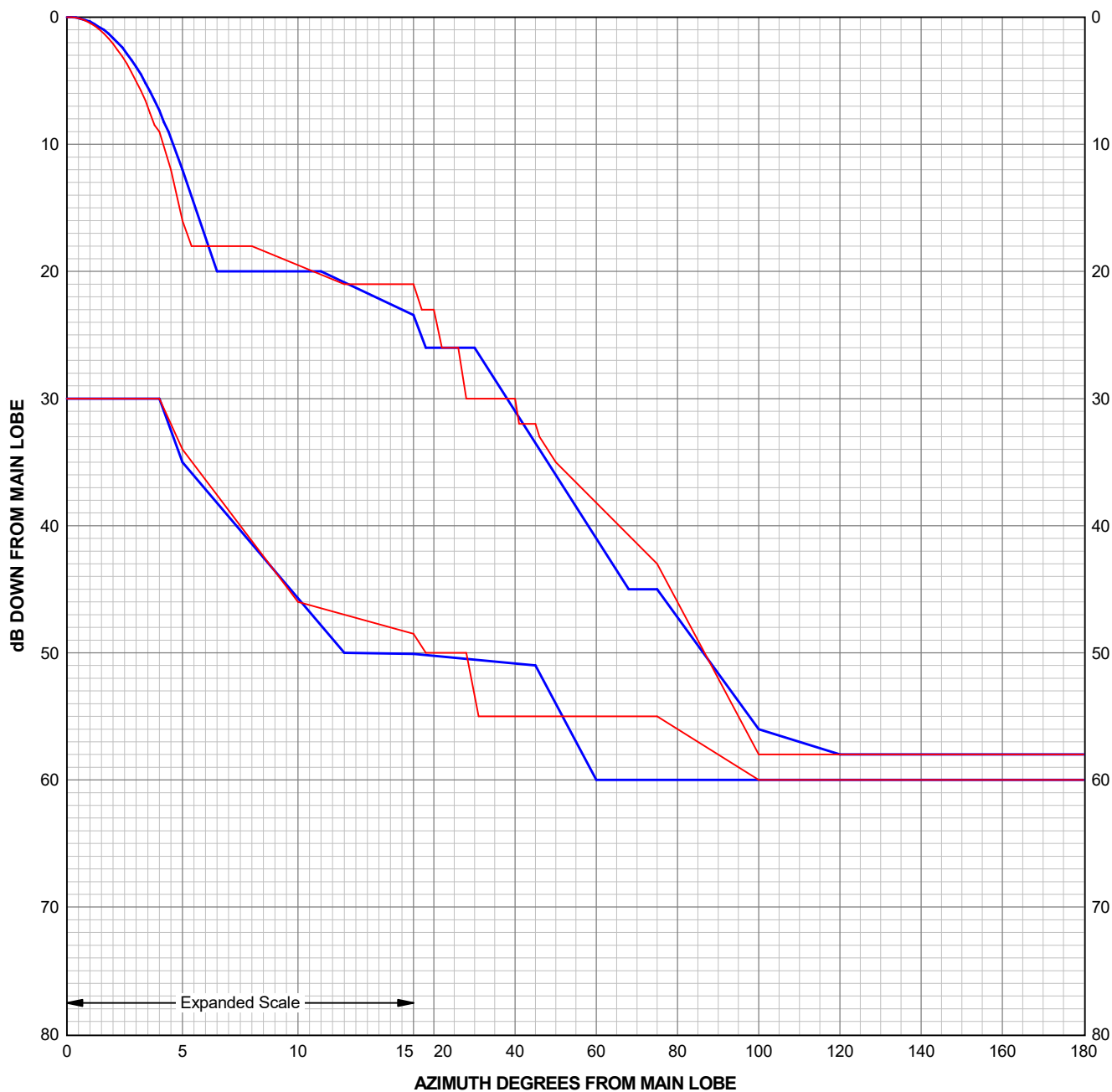
Antenna Type Number: VHLPX1-13
1.00 Foot Antenna 12.700-13.250 GHz Dual Polarized
Gain: 30.90 dBi at 12.975 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7003D

Engineering Approved:
26 May 2025



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 RPE: 7003D
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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	4.00	-30.00	0.20	0.00	4.00	-30.00
0.40	-0.02	5.00	-35.00	0.40	-0.04	5.00	-34.00
0.60	-0.12	12.00	-50.00	0.60	-0.13	10.00	-46.00
0.80	-0.23	45.00	-51.00	0.80	-0.28	18.00	-50.00
1.00	-0.34	60.00	-60.00	1.00	-0.47	28.00	-50.00
1.20	-0.55	180.00	-60.00	1.20	-0.68	31.00	-55.00
1.40	-0.79			1.40	-0.94	75.00	-55.00
1.60	-1.00			1.60	-1.29	100.00	-60.00
1.80	-1.28			1.80	-1.66	180.00	-60.00
2.00	-1.64			2.00	-2.08		
2.20	-2.00			2.20	-2.59		
2.40	-2.39			2.40	-3.11		
2.60	-2.90			2.60	-3.67		
2.80	-3.38			2.80	-4.34		
3.00	-3.90			3.00	-5.05		
3.20	-4.49			3.20	-5.77		
3.40	-5.18			3.40	-6.57		
3.60	-5.85			3.60	-7.55		
3.80	-6.57			3.80	-8.51		
4.00	-7.33			4.00	-9.00		
4.20	-8.26			4.50	-12.00		
4.40	-9.00			5.00	-16.00		
5.00	-12.00			5.40	-18.00		
6.50	-20.00			8.00	-18.00		
11.00	-20.00			12.00	-21.00		
18.00	-26.00			15.00	-21.00		
30.00	-26.00			17.00	-23.00		
68.00	-45.00			20.00	-23.00		
75.00	-45.00			22.00	-26.00		
100.00	-56.00			26.00	-26.00		
120.00	-58.00			28.00	-30.00		
180.00	-58.00			40.00	-30.00		
				41.00	-32.00		
				45.00	-32.00		
				46.00	-33.00		
				50.00	-35.00		
				75.00	-43.00		
				100.00	-58.00		
				180.00	-58.00		

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

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