

RADIATION PATTERN ENVELOPE

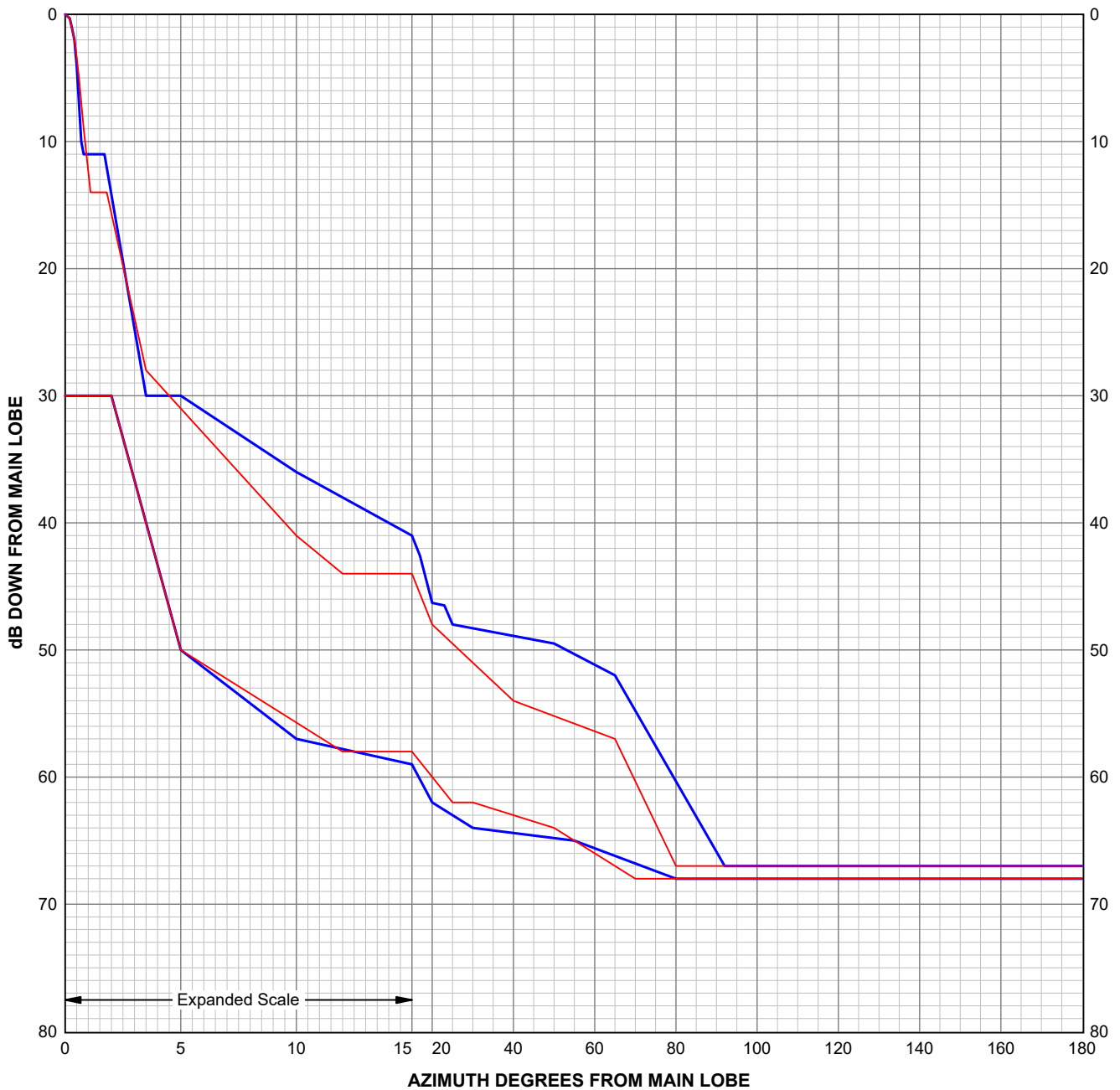
Antenna Type Number: VHLPX2-42/B
2.00 Foot Antenna 40.500-43.500 GHz Dual Polarized
Gain: 46.00 dBi at 42.000 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7222B

Engineering Approved:
10 May 2021

ANDREW CORPORATION



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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	-0.30	2.00	-30.00	0.20	-0.30	2.00	-30.00
0.30	-1.10	5.00	-50.00	0.40	-2.00	5.00	-50.00
0.40	-2.00	10.00	-57.00	0.48	-3.00	12.00	-58.00
0.45	-3.00	15.00	-59.00	0.60	-5.00	15.00	-58.00
0.50	-4.00	20.00	-62.00	0.80	-9.00	25.00	-62.00
0.70	-10.00	30.00	-64.00	1.10	-14.00	30.00	-62.00
0.80	-11.00	55.00	-65.00	1.80	-14.00	50.00	-64.00
1.70	-11.00	80.00	-68.00	3.50	-28.00	70.00	-68.00
3.50	-30.00	180.00	-68.00	5.00	-31.00	180.00	-68.00
5.00	-30.00			10.00	-41.00		
10.00	-36.00			12.00	-44.00		
15.00	-41.00			15.00	-44.00		
17.00	-42.60			20.00	-48.00		
20.00	-46.30			30.00	-51.00		
23.00	-46.50			40.00	-54.00		
25.00	-48.00			65.00	-57.00		
50.00	-49.50			80.00	-67.00		
65.00	-52.00			180.00	-67.00		
92.00	-67.00						
180.00	-67.00						

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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