

# RADIATION PATTERN ENVELOPE

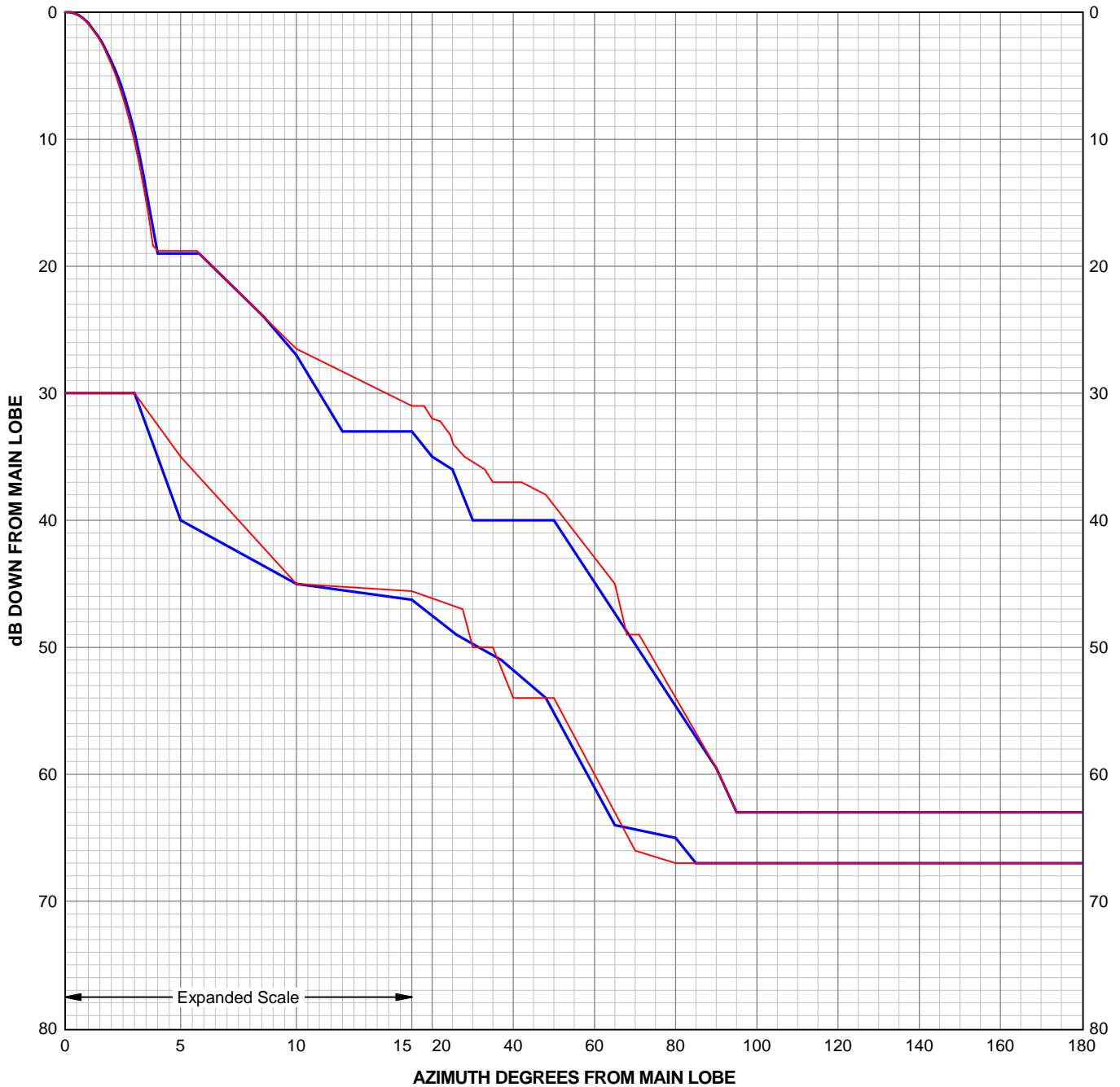
Antenna Type Number: VHLPX1-18  
1.00 Foot Antenna 17.700-19.700 GHz Dual Polarized  
Gain: 34.60 dBi at 18.700 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)  
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern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



RPE 7011F

Engineering Approved:  
25 May 2016

ANDREW CORPORATION



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 RPE: 7011F  
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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	70.00	-66.00
2.00	-3.86	180.00	-67.00	2.00	-4.11	80.00	-67.00
2.20	-4.69			2.20	-5.03	180.00	-67.00
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	-19.00			3.80	-18.37		
5.00	-19.00			4.00	-18.80		
5.80	-19.00			5.70	-18.80		
8.60	-24.00			10.00	-26.50		
10.00	-27.00			15.00	-31.00		
12.00	-33.00			18.00	-31.00		
15.00	-33.00			20.00	-32.00		
20.00	-35.00			22.00	-32.20		
25.00	-36.00			24.50	-33.30		
30.00	-40.00			25.20	-34.00		
50.00	-40.00			28.00	-35.00		
90.00	-59.50			33.00	-36.00		
95.00	-63.00			35.00	-37.00		
180.00	-63.00			42.00	-37.00		
				48.00	-38.00		
				65.00	-45.00		
				68.00	-49.00		
				71.00	-49.00		
				90.00	-59.50		
				95.00	-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