

# RADIATION PATTERN ENVELOPE

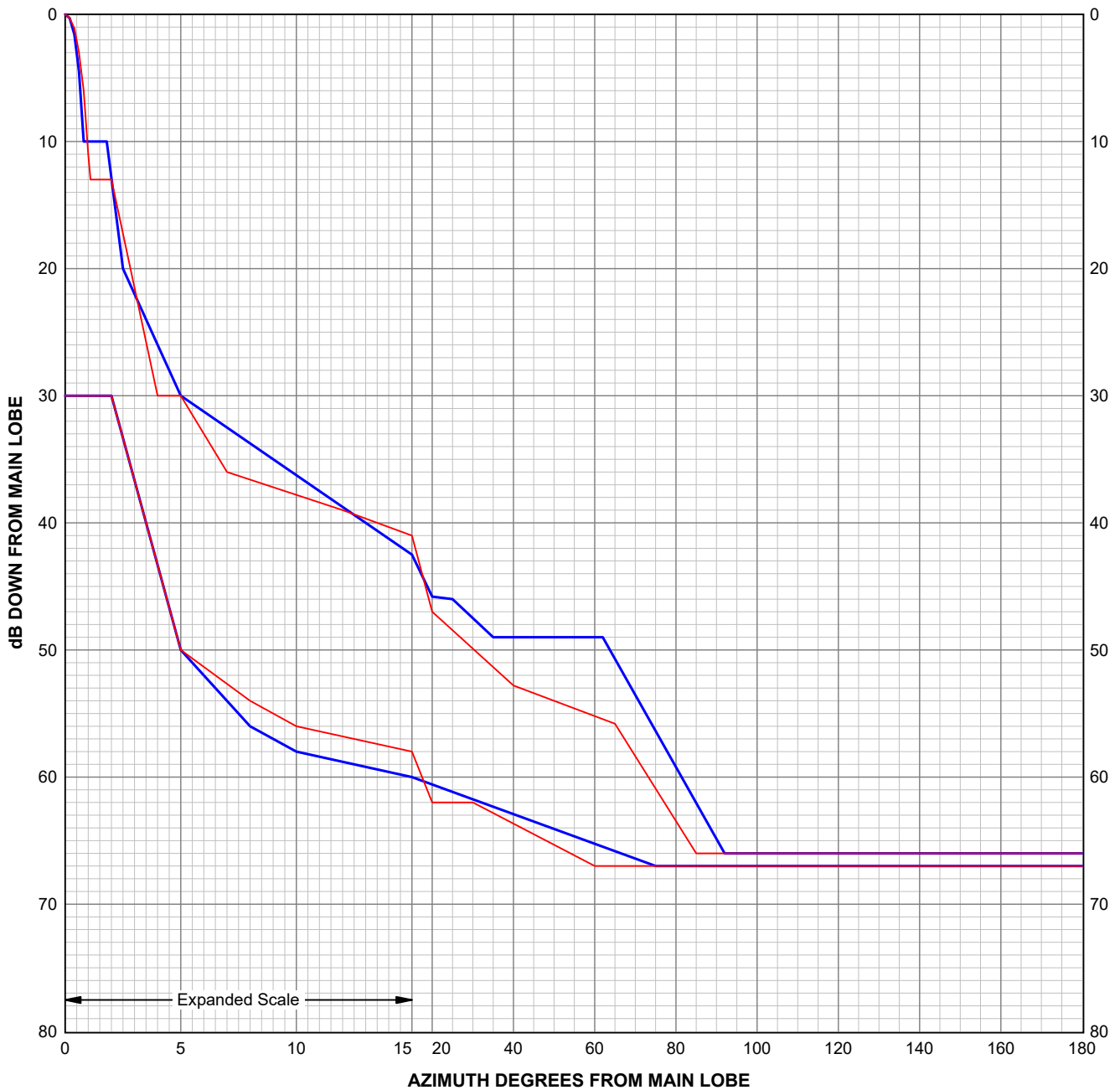
Antenna Type Number: VHLP2-38/D  
2.00 Foot Antenna 37.000-40.000 GHz Single Polarized  
Gain: 45.20 dBi at 38.500 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)  
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7209D

Engineering Approved:  
14 May 2021

ANDREW CORPORATION



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 2.00 Foot Antenna 37.000-40.000 GHz Single Polarized  
 Gain: 45.20 dBi at 38.500 GHz  
 RPE: 7209D  
 Engineering Approved: 14 May 2021



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
0.40	-1.60	5.00	-50.00	0.40	-1.10	5.00	-50.00
0.60	-4.50	8.00	-56.00	0.60	-3.00	8.00	-54.00
0.80	-10.00	10.00	-58.00	0.80	-6.00	10.00	-56.00
0.90	-10.00	15.00	-60.00	1.00	-11.00	15.00	-58.00
1.80	-10.00	75.00	-67.00	1.10	-13.00	20.00	-62.00
2.50	-20.00	180.00	-67.00	2.00	-13.00	30.00	-62.00
5.00	-30.00			4.00	-30.00	60.00	-67.00
15.00	-42.50			5.00	-30.00	180.00	-67.00
20.00	-45.80			7.00	-36.00		
25.00	-46.00			12.00	-39.00		
35.00	-49.00			15.00	-41.00		
62.00	-49.00			20.00	-47.00		
92.00	-66.00			40.00	-52.80		
180.00	-66.00			65.00	-55.80		
				85.00	-66.00		
				180.00	-66.00		

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

ANDREW CORPORATION  
 10500 W. 153rd Street  
 Orland Park, IL. U.S.A 60462

Corporate Web Site: <http://www.andrew.com>  
 Customer Service Center: 1-800-255-1479