



Wright Technologies Inc.

Broadband Frequency Operation

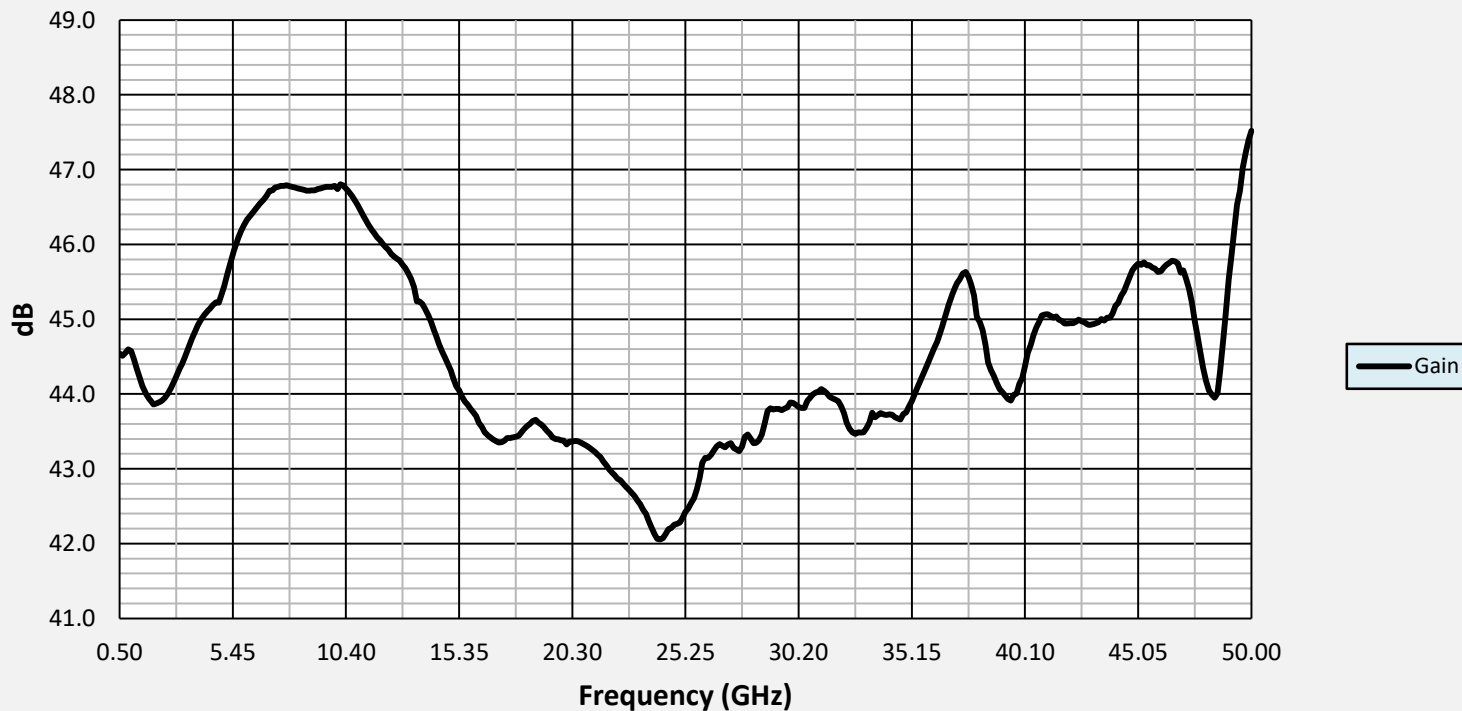
PERFORMANCE DATA			ASL-50B3514																																																																				
			Serial # 0001																																																																				
FEATURES																																																																							
* Operating Frequency: 0.50 - 50.00 GHz			* 50 Ohm Input and Output Matched																																																																				
* Small Signal Gain: 35.00 - 48.00 dB			* -20 to +75°C Operating Temperature																																																																				
* Gain Flatness: +/- 3.50 dB Full Band			* Unconditionally Stable																																																																				
* Power at P-1: 14.00 dBm MIN			* Single DC Bias Supply																																																																				
* High Output IP3: 24.00 dBm TYP			* Built-in DC Voltage regulation																																																																				
* Noise Figure: 6.50 dB MAX			* Small Size and Weight, Yet Robust																																																																				
APPLICATIONS																																																																							
Laboratory Applications	Test Instrumentation	Microwave Radio Systems																																																																					
R&D Lab Use	Military and Space	Power Amplifier																																																																					
Radar Systems	Communications Systems	General Purpose Amplifier																																																																					
Electronic Warfare	Satellite Communications	RF Front Ends																																																																					
Telecom Infrastructure	Wireless Communications	Fiber Optic Interface																																																																					
<table><tr><th>Frequency GHz</th><th>Gain dB</th><th>P-1 dBm</th><th>Input VSWR</th><th>Output VSWR</th><th>Noise dB</th></tr><tr><td>0.500</td><td>44.54</td><td>15.31</td><td>1.54</td><td>1.19</td><td>5.02</td></tr><tr><td>12.875</td><td>45.73</td><td>16.09</td><td>1.20</td><td>1.33</td><td>3.91</td></tr><tr><td>25.250</td><td>42.42</td><td>15.45</td><td>1.49</td><td>1.95</td><td>4.06</td></tr><tr><td>37.625</td><td>45.56</td><td>14.96</td><td>1.87</td><td>1.13</td><td>5.13</td></tr><tr><td>50.000</td><td>47.52</td><td>14.58</td><td>2.17</td><td>1.75</td><td>5.90</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Min</td><td>42.06</td><td>14.11</td><td>1.02</td><td>1.06</td><td>3.39</td></tr><tr><td>Max</td><td>47.52</td><td>16.09</td><td>2.26</td><td>2.22</td><td>6.18</td></tr><tr><td>Spec</td><td>35.00 - 48.00</td><td>14.00 MIN</td><td>2.50 MAX</td><td>2.50 MAX</td><td>6.50 MAX</td></tr></table>						Frequency GHz	Gain dB	P-1 dBm	Input VSWR	Output VSWR	Noise dB	0.500	44.54	15.31	1.54	1.19	5.02	12.875	45.73	16.09	1.20	1.33	3.91	25.250	42.42	15.45	1.49	1.95	4.06	37.625	45.56	14.96	1.87	1.13	5.13	50.000	47.52	14.58	2.17	1.75	5.90													Min	42.06	14.11	1.02	1.06	3.39	Max	47.52	16.09	2.26	2.22	6.18	Spec	35.00 - 48.00	14.00 MIN	2.50 MAX	2.50 MAX	6.50 MAX
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Bias @ 12.0V, IT = 280 350 mA TYP																																																																							
All Measurements Taken at +25°C (Ambient Room)																																																																							
Contact Us																																																																							
Wright Technologies Inc. 1352 Blue Oaks Blvd Suite 140 Roseville, CA 95678			Phone: (916) 773-4424 Fax: (916) 760-2770 E-mail: sales@wrighttec.com																																																																				
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DATA PLOTS

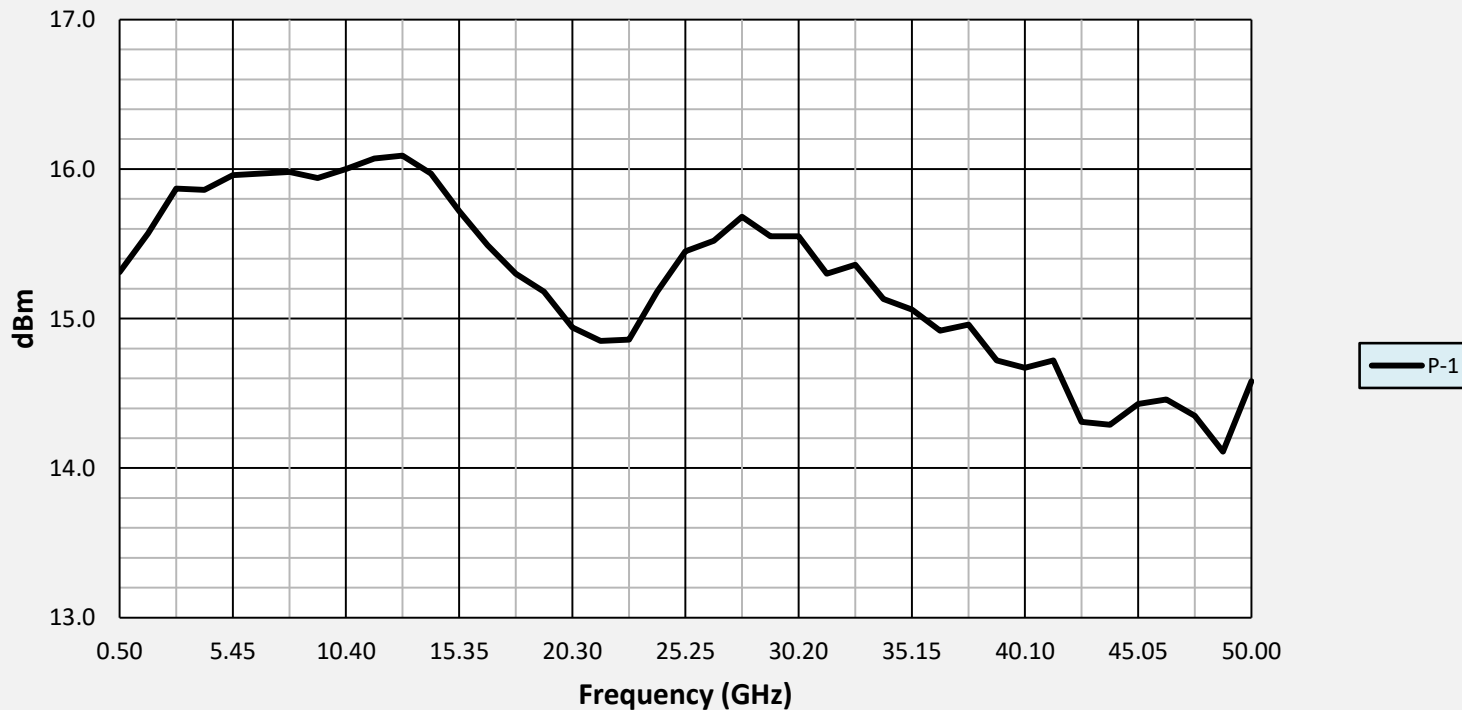
ASL-50B3514

Serial # 0001

Gain



P-1





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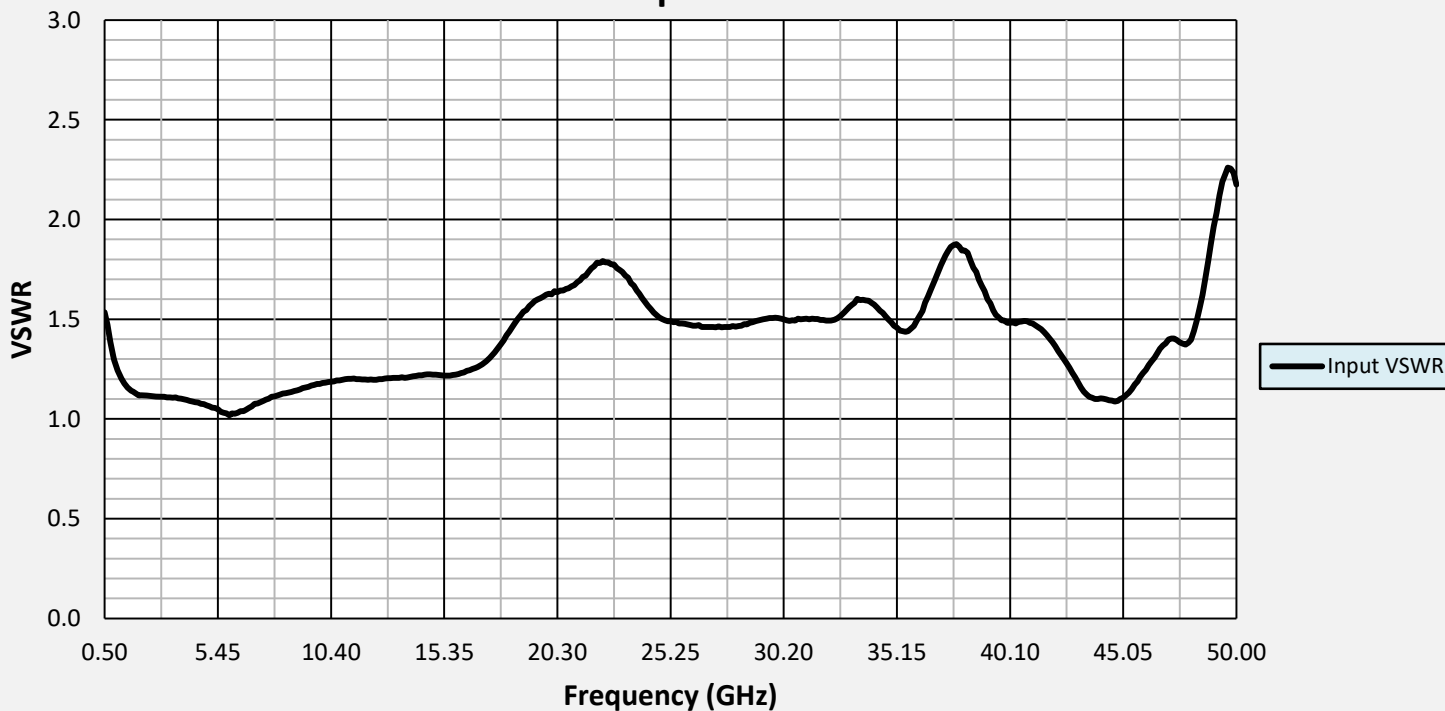
Broadband Frequency Operation

DATA PLOTS

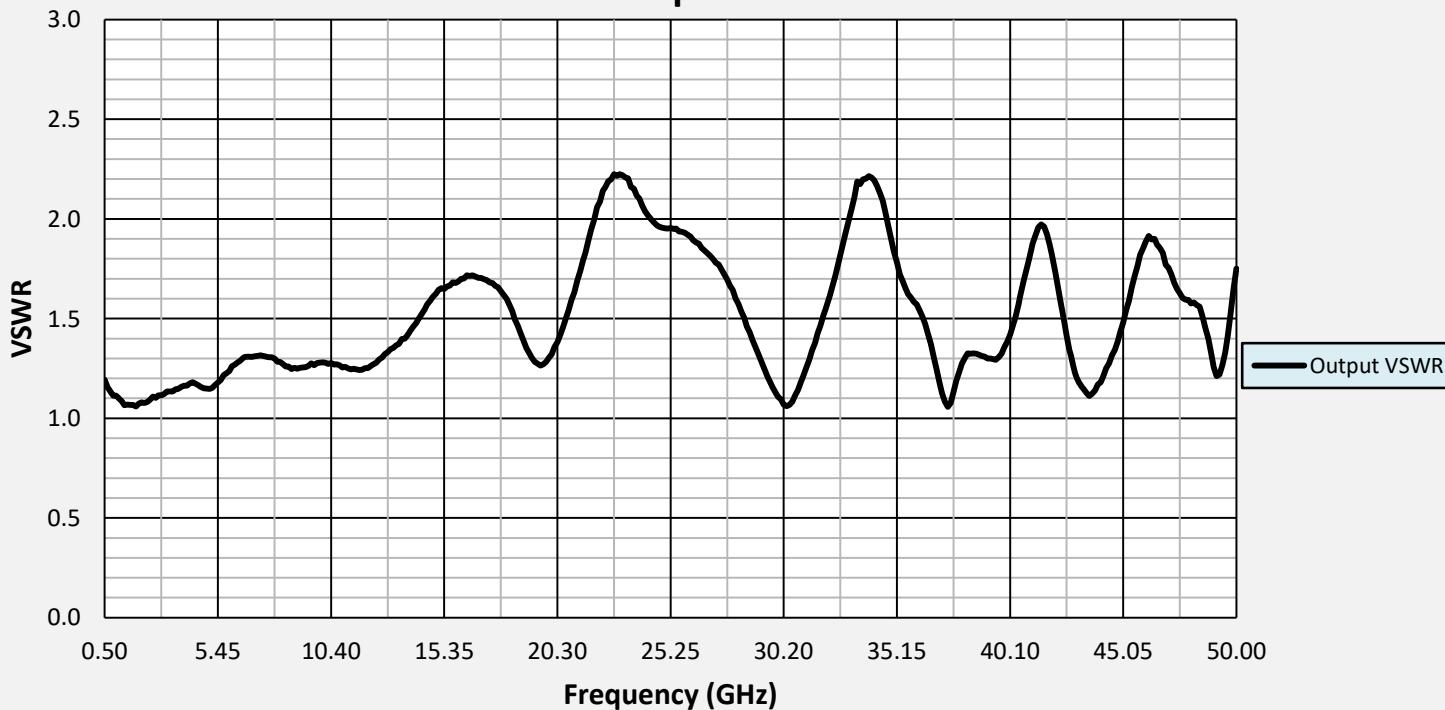
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Serial # 0001

Input VSWR



Output VSWR





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Noise Figure

