



# Wright Technologies Inc.

## Broadband Frequency Operation

<b>PERFORMANCE DATA</b>
-------------------------

**RoHS COMPLIANT**

<b>ASP40-3530</b>
<b>0002</b>

**FEATURES**

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>* 26.5-40 Ghz Frequency Operation</li> <li>* P-1dB: +30 dBm minimum</li> <li>* Small Signal Gain: 35-48 dB minimum</li> <li>* Gain Flatness: +/- 4.5 dB full band</li> <li>* High Output IP3: 40 dBm typ.</li> <li>* Noise Figure: 8.0 dB Typical</li> </ul> | <ul style="list-style-type: none"> <li>* 50 Ohm Input and Output Matched</li> <li>* +10 to +50 °C Operating Temperature</li> <li>* Unconditionally Stable</li> <li>* Single DC Bias Supply</li> <li>* Built-in DC Voltage regulation</li> <li>* Small Size and Weight, Yet Robust</li> </ul> |
|---|--|

**APPLICATIONS**

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>Laboratory Applications</li> <li>R&amp;D Lab Use</li> <li>Radar Systems</li> <li>Electronic Warfare</li> <li>Telecom Infrastructure</li> </ul> | <ul style="list-style-type: none"> <li>Test Instrumentation</li> <li>Military and Space</li> <li>Communications Systems</li> <li>Satellite Communications</li> <li>Wireless Communications</li> </ul> | <ul style="list-style-type: none"> <li>Microwave Radio Systems</li> <li>Power Amplifier</li> <li>General Purpose Amplifier</li> <li>RF Front Ends</li> <li>Fiber Optic Interface</li> </ul> |
|---|---|---|

Freq. In GHz	Gain dB	P-1 dBm	Input VSWR	Output VSWR	Noise dB
26.50	43.8	31.6	1.33	1.83	6.1
29.75	40.5	31.9	2.06	1.27	5.7
33.25	39.9	32.0	2.03	1.18	5.2
36.50	40.2	31.4	1.59	1.37	5.7
40.00	39.0	30.8	1.78	1.48	6.3
Min	38.2	30.7	---	---	---
Max	43.8	---	2.47	1.99	6.3
Spec	35 to 48	30 Min	2.50 Max	2.50 Max	8 Typ

Bias @ +15.0 V, IT = 4800 mA

**FULL BIAS MUST BE APPLIED AT TURN ON** 4500 mA TYP

All Measurements Taken at 25°C Ambient Room

Wright Technologies Inc.  
1352 Blue Oaks Blvd Suite 140  
Roseville, CA 95678

**Contact Us**

Phone: (916) 773-4424  
 Fax: (916) 760-2770  
 E-mail: [sales@wrighttec.com](mailto:sales@wrighttec.com)



# Wright Technologies Inc.

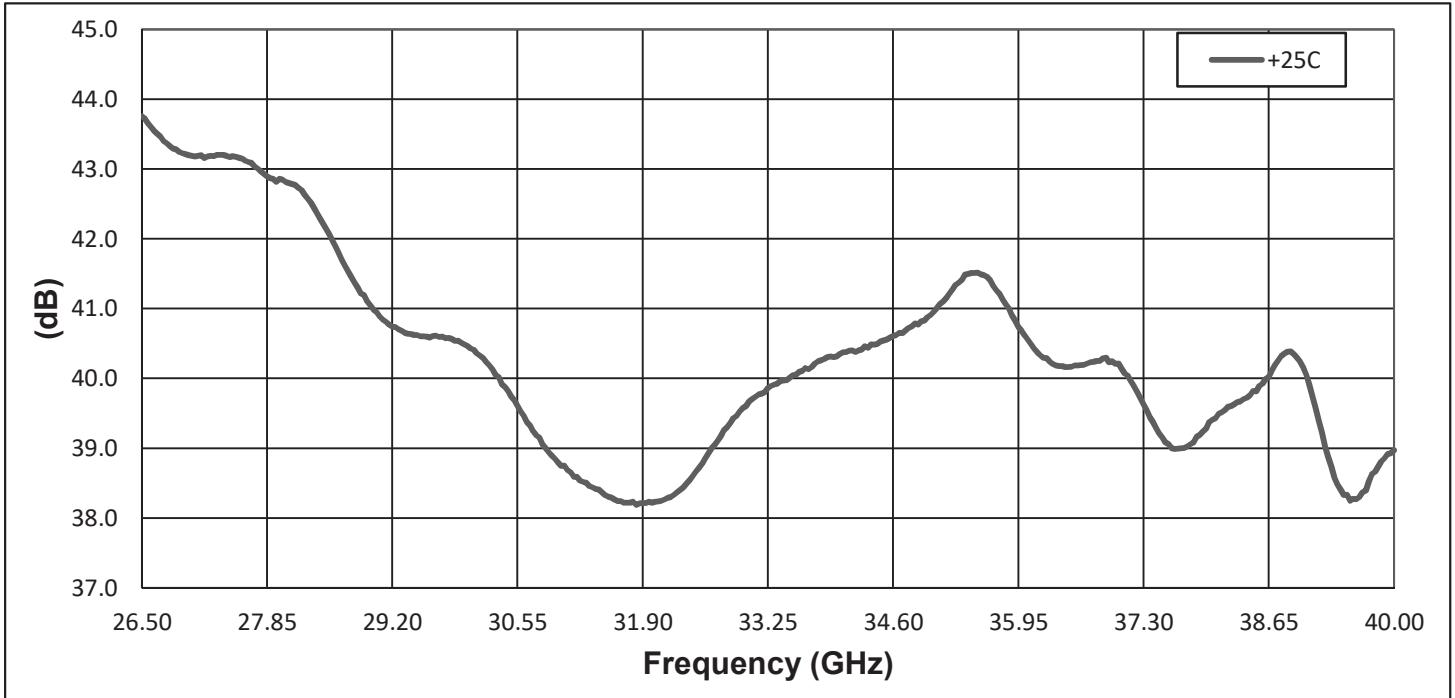
Broadband Frequency Operation

DATA PLOTS

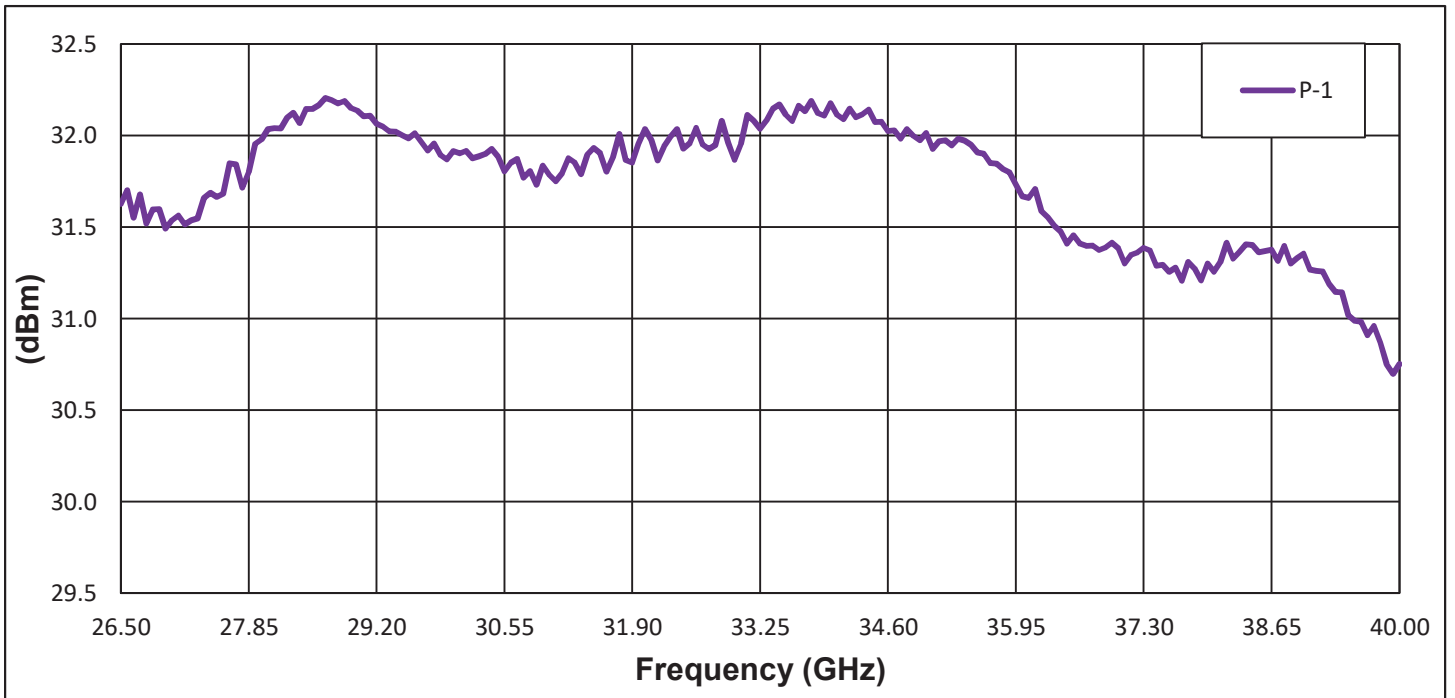
RoHS COMPLIANT

ASP40-3530  
0002

## Gain



## Power dBm





# Wright Technologies Inc.

Broadband Frequency Operation

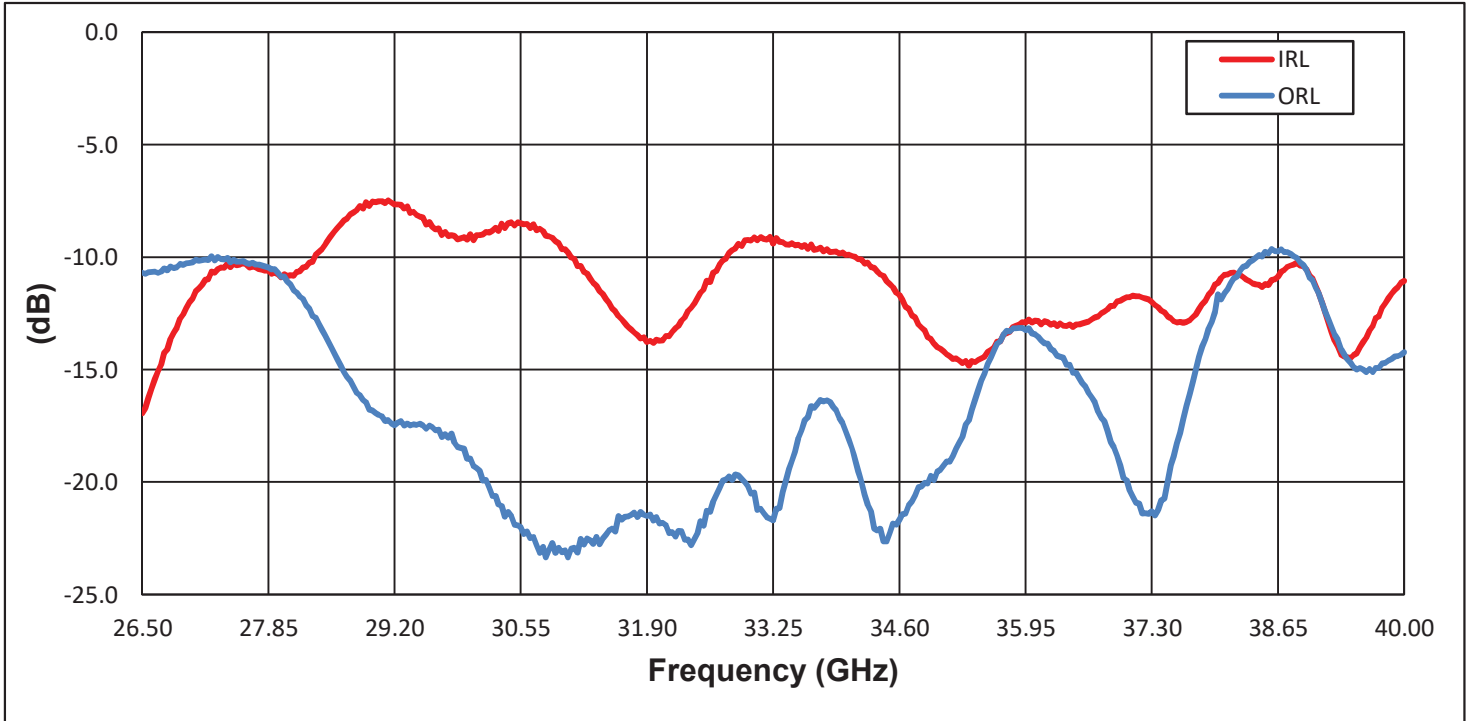
DATA PLOTS

RoHS COMPLIANT

ASP40-3530

0002

## Return Loss



## Noise (26.5-40 GHz)

