



# Wright Technologies Inc.

## Broadband Frequency Operation

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

**RoHS COMPLIANT**

<b>ASL50-B3013</b>
<b>0008</b>

### FEATURES

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>* 18-50 Ghz Frequency Operation</li> <li>* P-1dB: +13 dBm minimum</li> <li>* Small Signal Gain: 30-40 dB minimum</li> <li>* Gain Flatness: +/- 2.75 dB full band</li> <li>* High Output IP3: 24 dBm typ.</li> <li>* Noise Figure: 6.5 dB maximum</li> </ul> | <ul style="list-style-type: none"> <li>* 50 Ohm Input and Output Matched</li> <li>* -10 to +75 °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
18.0	37.3	14.6	1.64	2.17	4.0
26.0	36.1	16.8	1.54	1.52	3.5
34.0	38.7	15.8	1.27	2.07	4.2
42.0	34.5	17.4	2.38	1.59	5.3
50.0	36.4	16.4	1.95	1.39	5.9
Min	34.5	14.1	---	---	---
Max	39.6	---	2.67	2.68	6.0
Spec	30-40	13 Min	2.75 Max	2.75 Max	6.5 Max

$$\text{Bias @ +12.0 V, IT} = \frac{310}{360} \text{ mA TYP}$$

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.

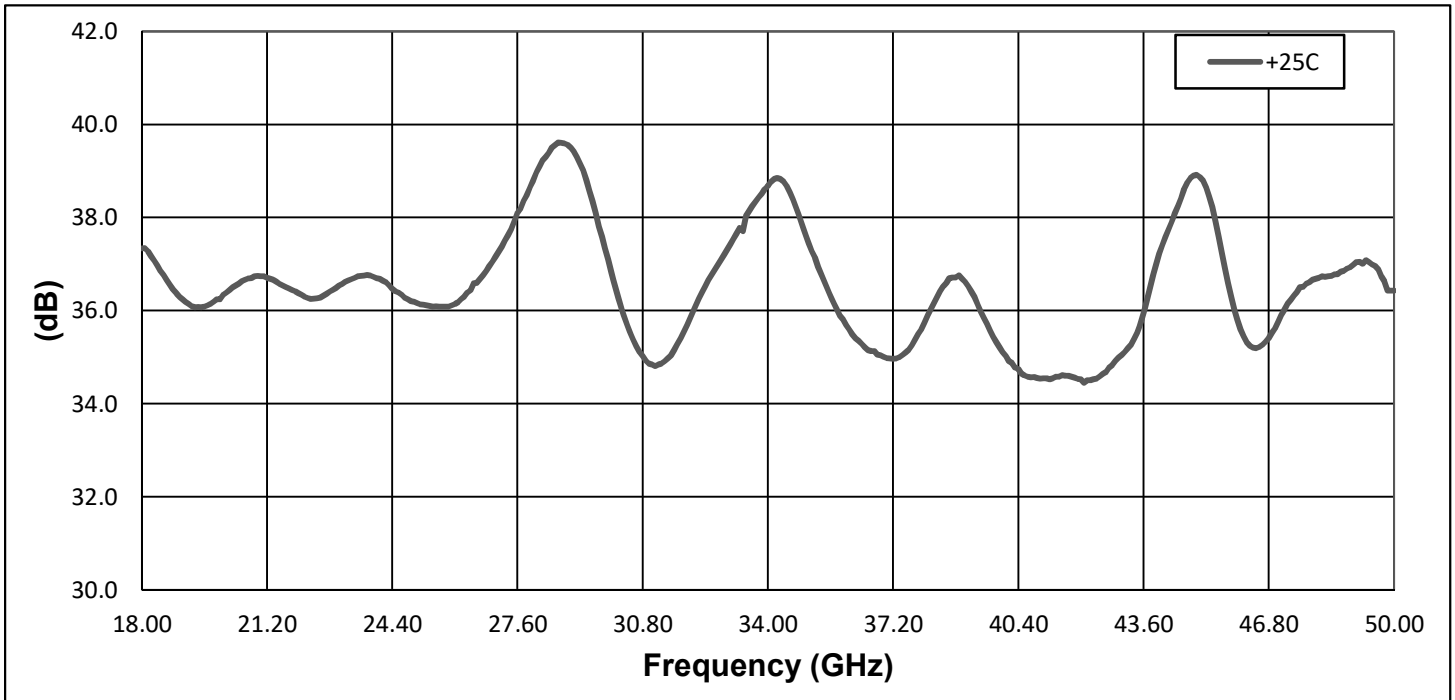
Broadband Frequency Operation

DATA PLOTS

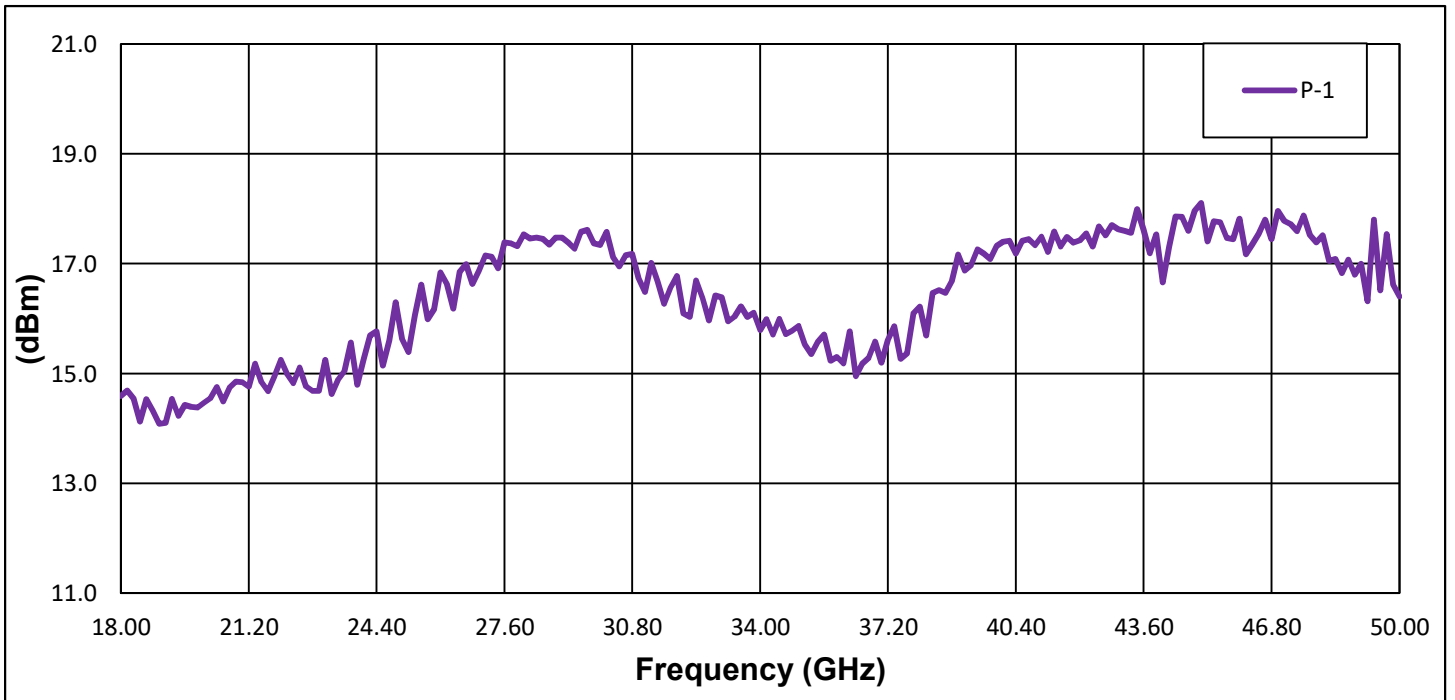
RoHS COMPLIANT

ASL50-B3013  
0008

## Gain



## Power dBm





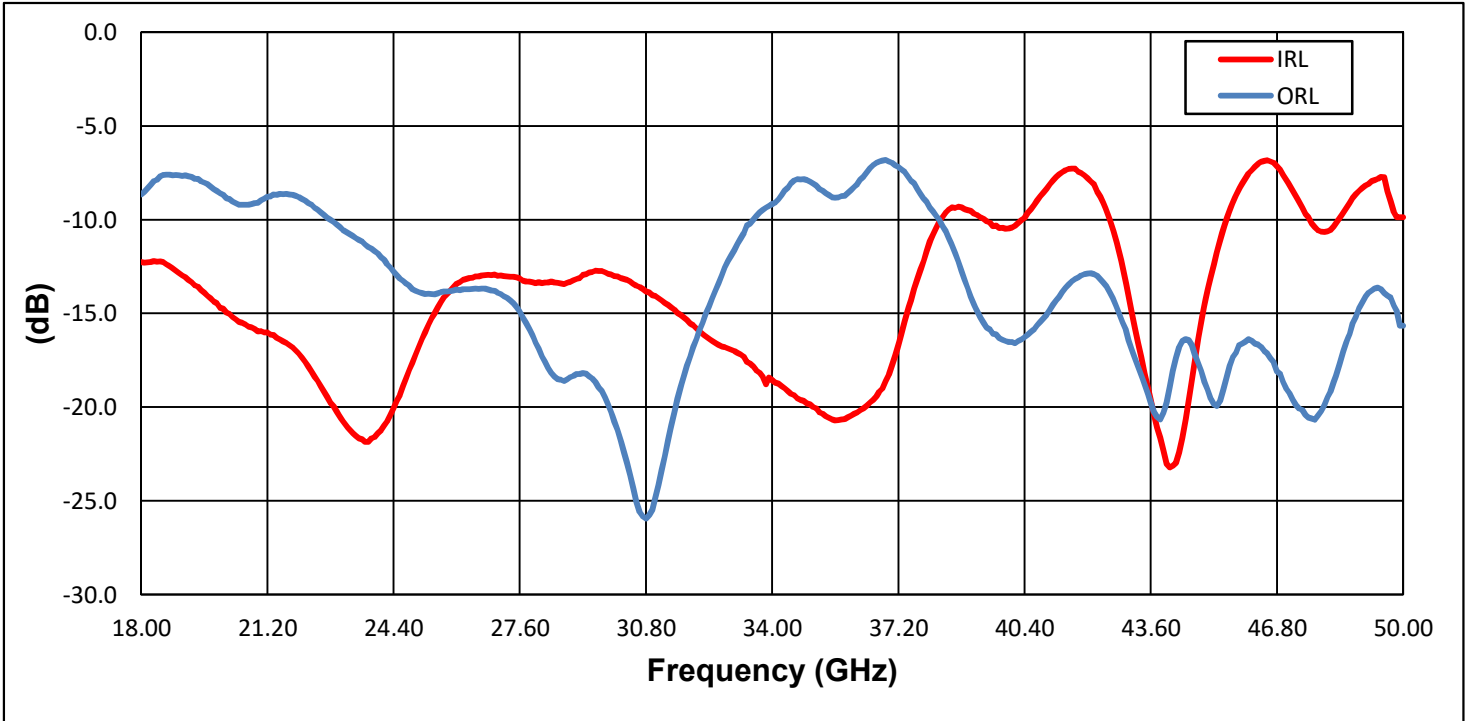
# Wright Technologies Inc.

Broadband Frequency Operation

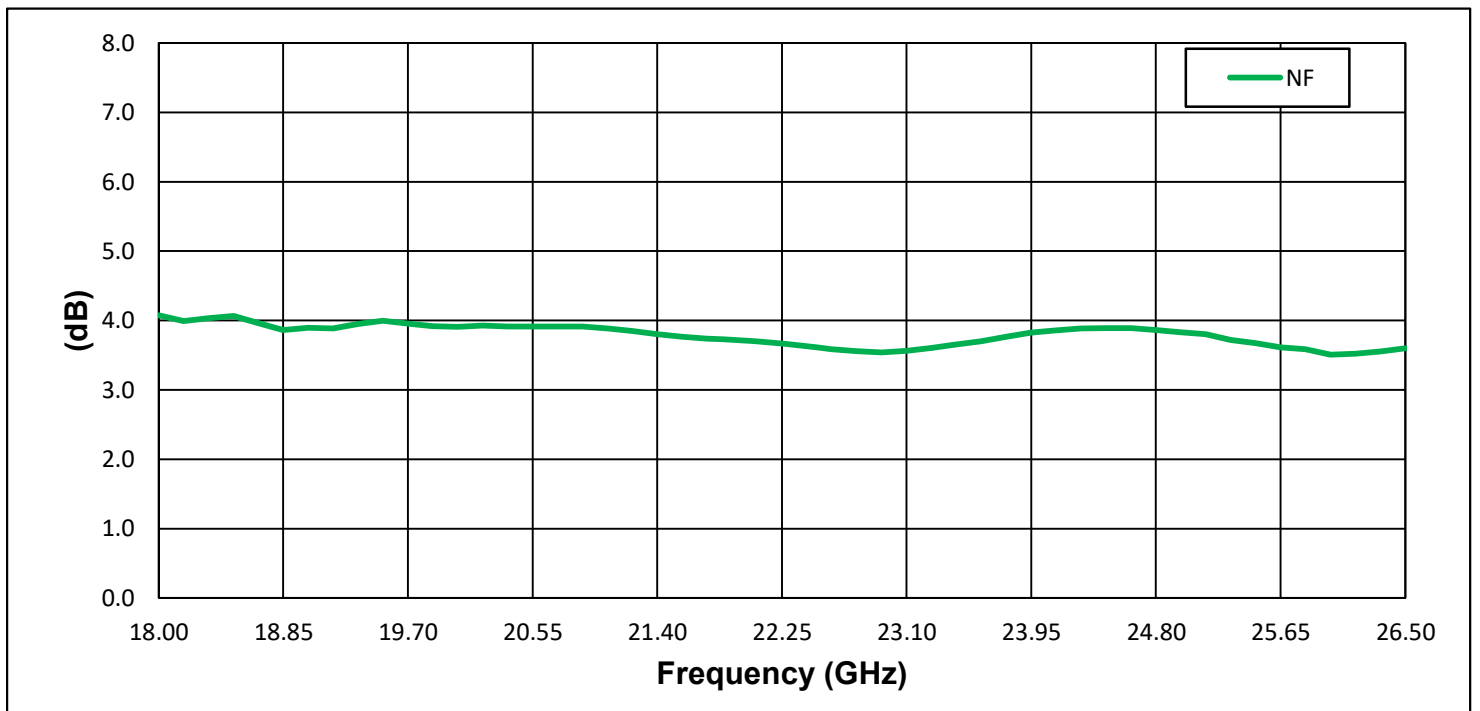
DATA PLOTS

RoHS COMPLIANT  
Return Loss

ASL50-B3013  
0008



## Noise (18-26.5 GHz)





# Wright Technologies Inc.

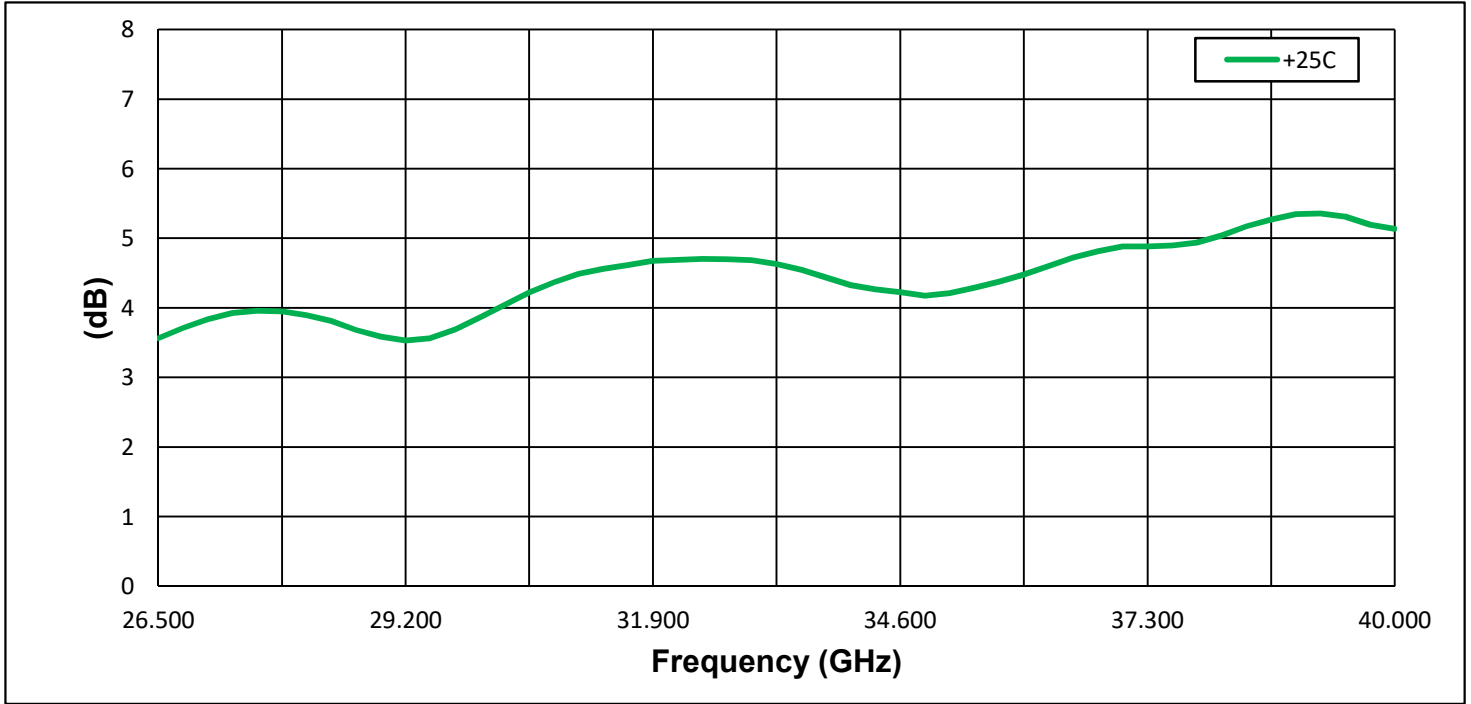
Broadband Frequency Operation

DATA PLOTS

RoHS COMPLIANT

ASL50-B3013  
0008

## Noise (26.5-40 GHz)



## Noise (40-50 GHz)

