



# Wright Technologies Inc.

## Broadband Frequency Operation

**TECHNICAL DATA SHEET**

**RoHS COMPLIANT**

<b>ASL-18B4015</b>
<b>0003</b>

**FEATURES**

- |  |  |
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| <ul style="list-style-type: none"> <li>* 100 MHz-18 Ghz Frequency Operation</li> <li>* P-1dB: +15 dBm minimum</li> <li>* Small Signal Gain: 40 dB minimum</li> <li>* Gain Flatness: +/- 1.75 dB full band</li> <li>* High Output IP3: 25 dBm typ.</li> <li>* Noise Figure: 4.0 dB maximum</li> </ul> | <ul style="list-style-type: none"> <li>* 50 Ohm Input and Output Matched</li> <li>* -20 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> |
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**APPLICATIONS**

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|---|---|---|
| Laboratory Applications<br>R&D Lab Use<br>Radar Systems<br>Electronic Warfare<br>Telecom Infrastructure | Test Instrumentation<br>Military and Space<br>Communications Systems<br>Satellite Communications<br>Wireless Communications | Microwave Radio Systems<br>Power Amplifier<br>General Purpose Amplifier<br>RF Front Ends<br>Fiber Optic Interface |
|---|---|---|

Freq. In GHz	Gain dB	P-1 dBm	Input VSWR	Output VSWR	Noise dB
0.100	43.2	17.6	1.49	1.31	3.9
4.575	42.7	17.1	1.10	1.06	2.9
9.050	42.5	16.6	1.24	1.32	2.4
13.525	42.4	16.4	1.63	1.39	3.1
18.000	41.9	15.5	1.42	1.89	3.8
Min.	41.6	15.5	---	---	---
Max.	44.1	---	1.80	2.10	3.9
Spec.	40.0 - 50.0	15.0 Min	2.20 Max	2.20 Max	4.0 Max

$$\text{Bias @ +12.0 V, IT} = \frac{260}{300} \text{ mA} \text{ TYP}$$

All Measurements Taken at 25°C Ambient Room

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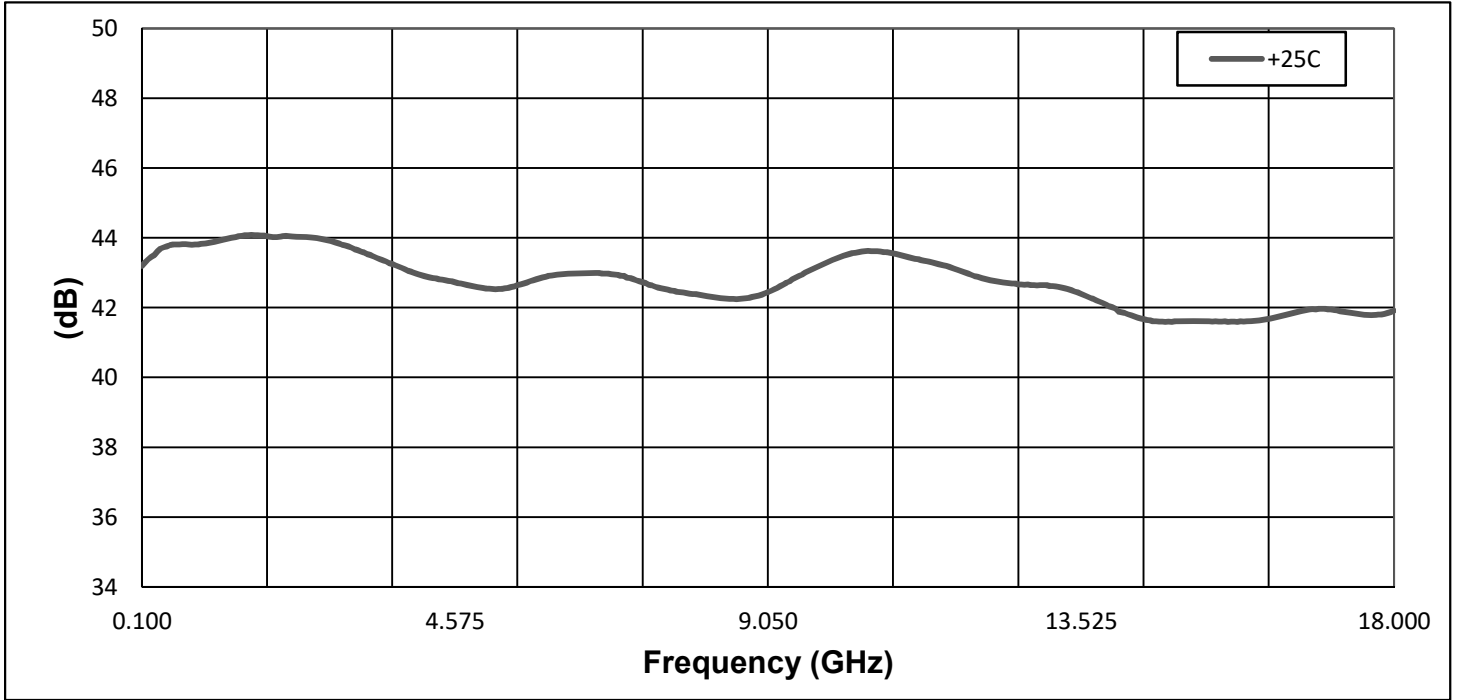
Broadband Frequency Operation

DATA PLOTS

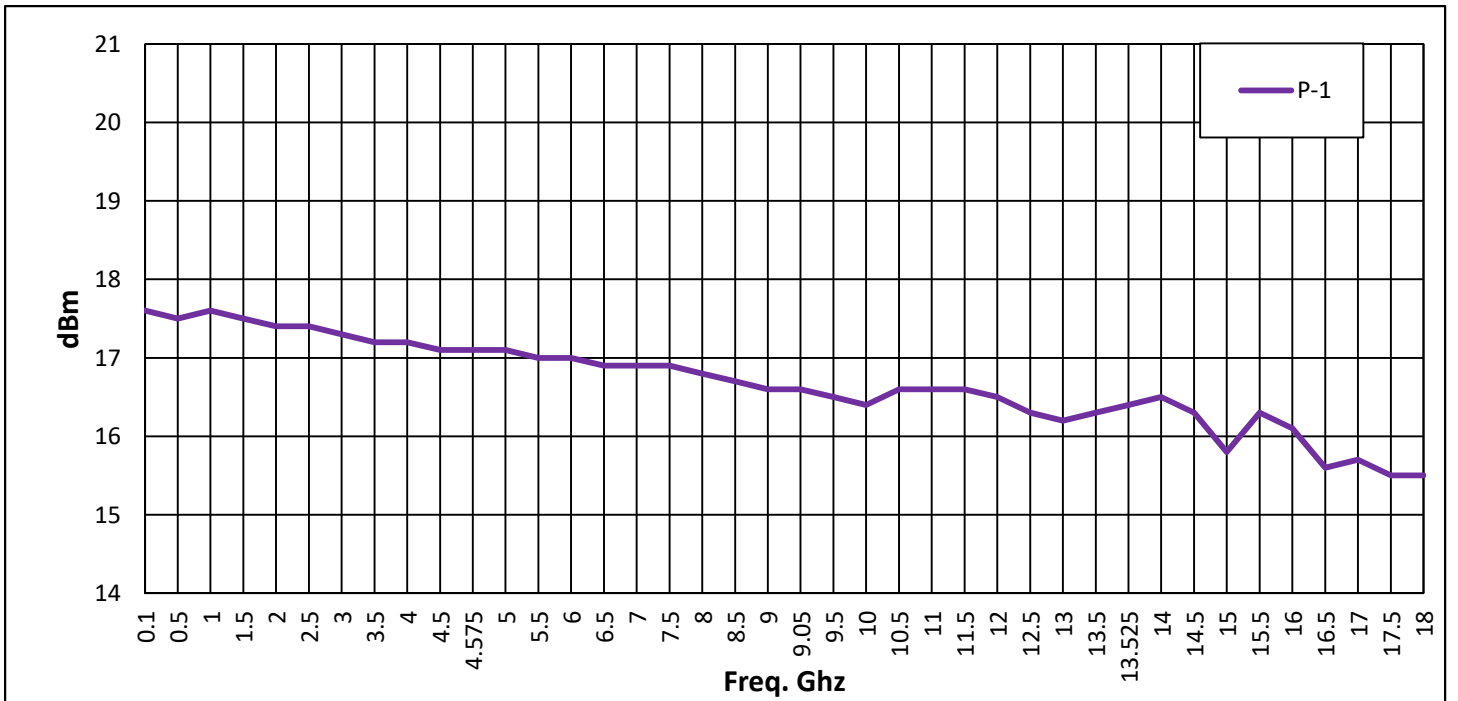
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## Gain



## Power dBm





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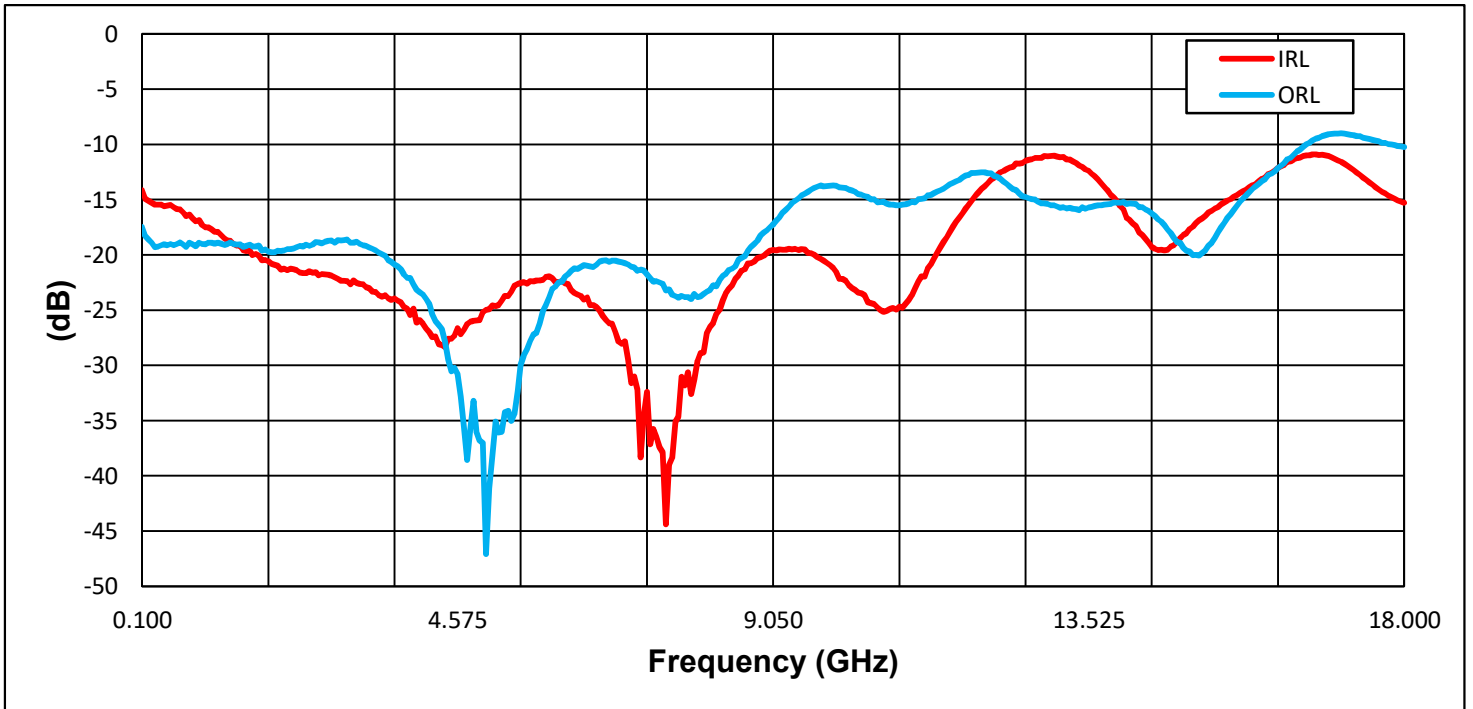
DATA PLOTS

RoHS COMPLIANT

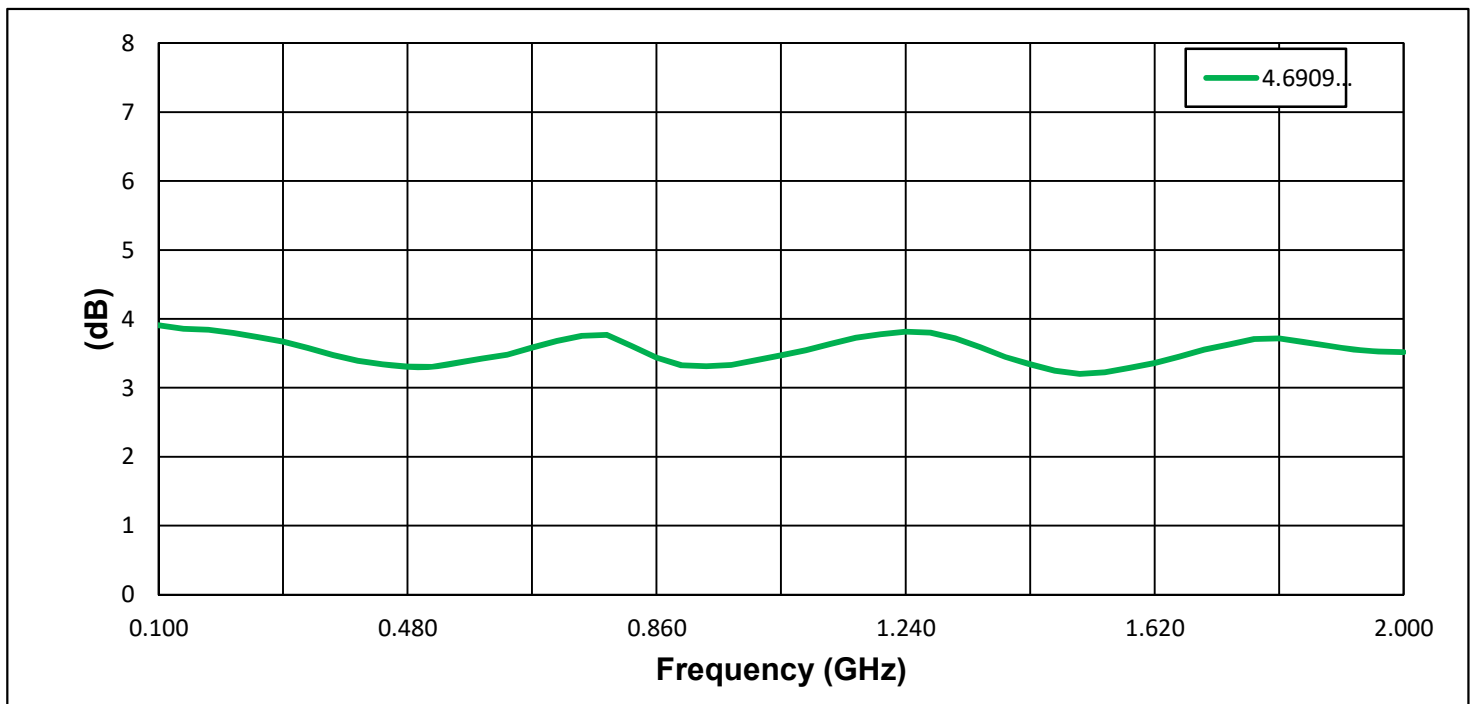
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## Return Loss

0003



## Noise (100 MHz-2 GHz)





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## Noise (2 GHz-18 GHz)

