



# Wright Technologies Inc.

## Broadband Frequency Operation

<b>PERFORMANCE DATA</b>
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**RoHS COMPLIANT**

<b>ASL-18B2517</b>
<b>Serial # 0758</b>

**FEATURES**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>* Operating Frequency: 0.1 - 18.0 GHz</li> <li>* P-1dB: 17.00 dBm Min</li> <li>* Small Signal Gain: 25.00 - 35.00 dB</li> <li>* Gain Flatness: +/- 1.75 dB Full Band</li> <li>* High Output IP3: 27.0 dBm Typ</li> <li>* Noise Figure: 4.00 dB Max</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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|---|---|---|
| <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
0.100	27.90	20.88	2.10	2.01	3.50
4.575	28.61	22.43	1.24	1.15	2.56
9.050	29.49	22.41	1.09	1.39	2.28
13.525	28.73	19.84	1.45	1.16	2.82
18.000	28.84	18.65	1.62	1.23	3.50
Min	27.90	18.59	---	---	---
Max	29.52	---	2.10	2.01	3.50
Spec	25.00 - 35.00	17.00 Min	2.20 Max	2.20 Max	4.00 Max

Bias @ +12.0V, IT =  $\frac{280}{300}$  mA  
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



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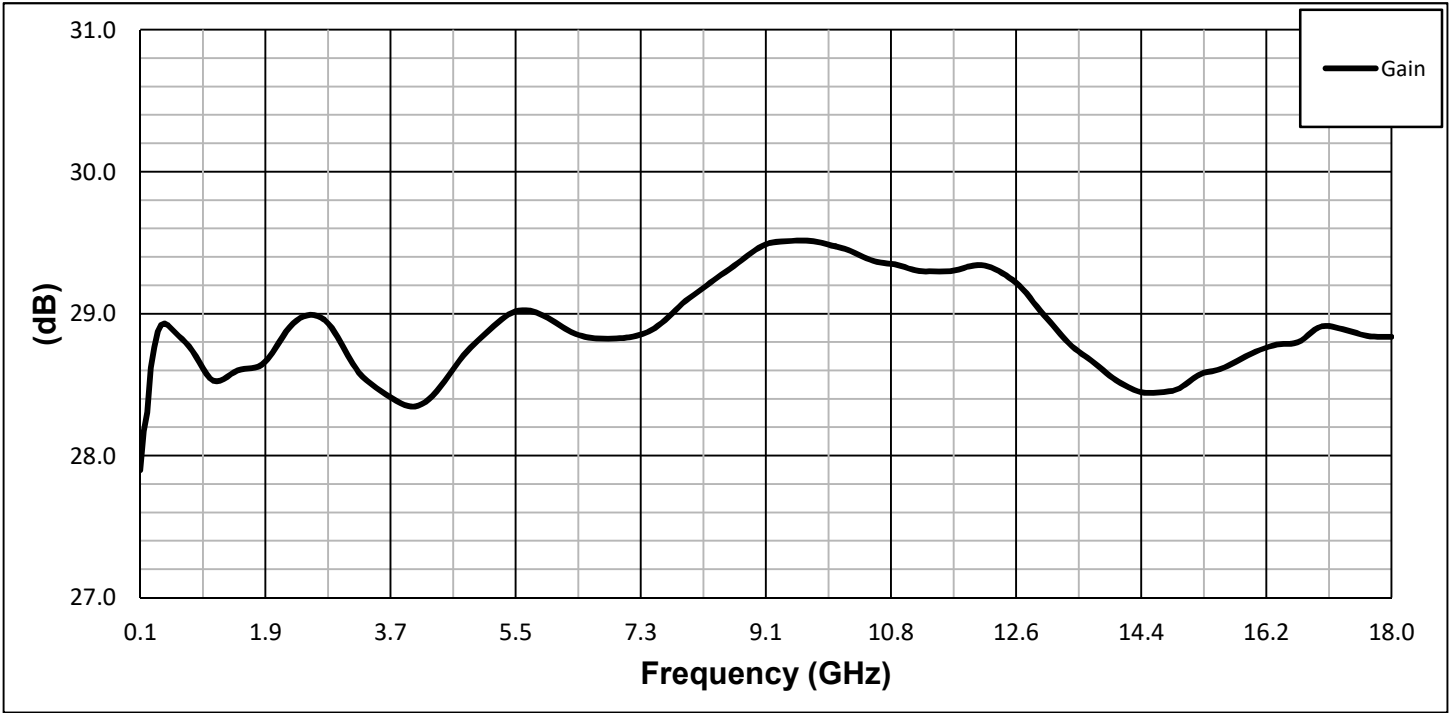
Broadband Frequency Operation

DATA PLOTS

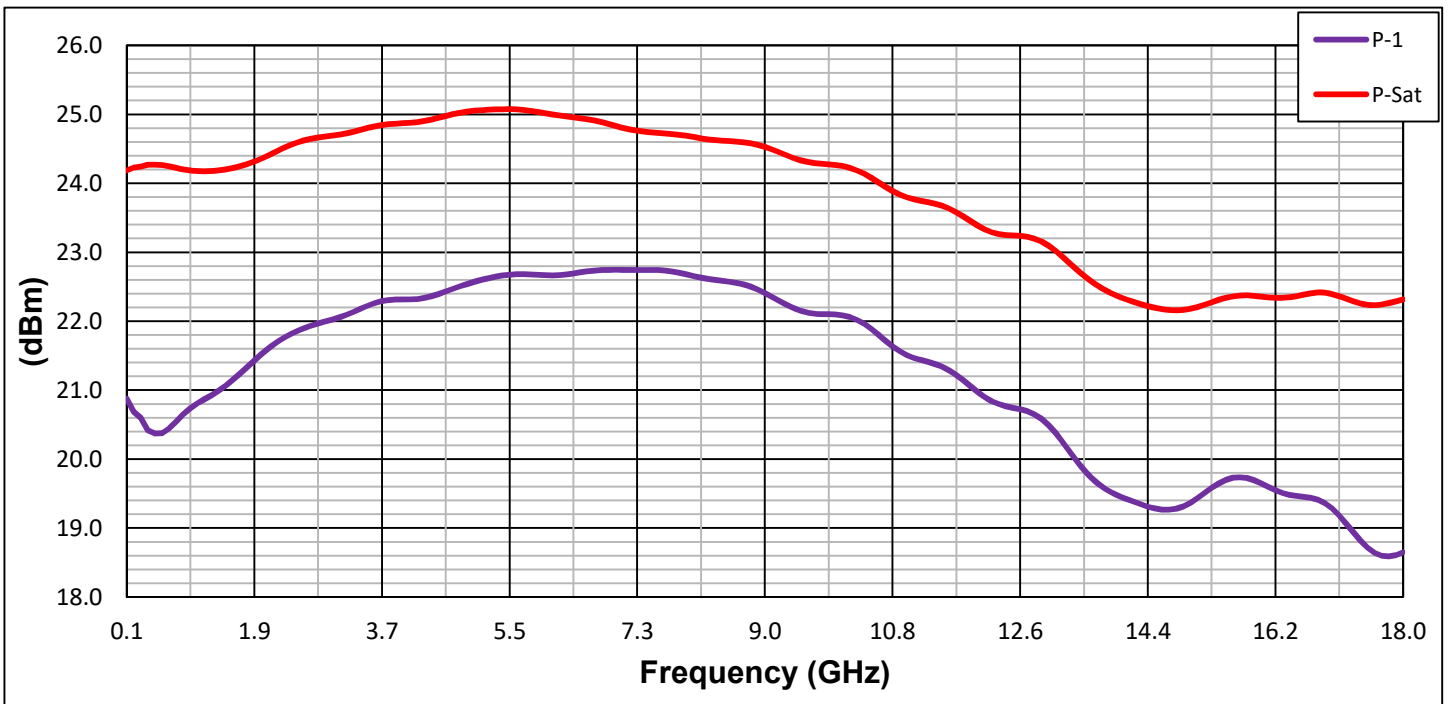
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## Gain



## Power





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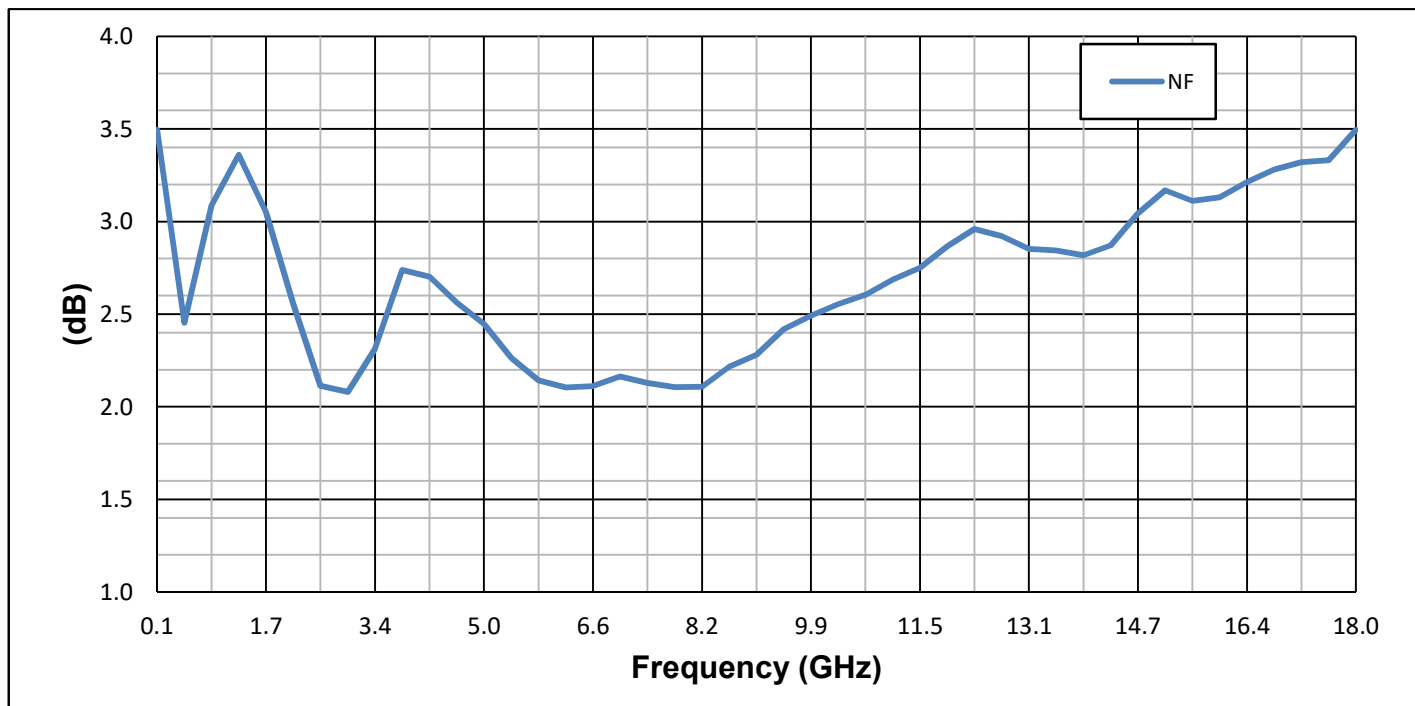
DATA PLOTS

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## Noise



## Return Loss

