



# Wright Technologies Inc.

## Broadband Frequency Operation

**TECHNICAL DATA SHEET**

**RoHS COMPLIANT**

<b>ASL-123010</b>
<b>Serial # 0001</b>

**FEATURES**

- \* 100MHz - 12GHz Frequency Operation
- \* P-1dB: +10 dBm minimum
- \* Small Signal Gain: 30-40 dB minimum
- \* Gain Flatness: +/- 1.50 dB full band
- \* Noise Figure: 2.8 Maximum

- \* High Output IP3: 20 dBm Typ
- \* 50 Ohm Input and Output Matched
- \* -20 to +75 °C Operating Temperature
- \* Single DC Bias Supply
- \* Built-in DC Voltage regulation
- \* Small Size and Weight, Yet Robust

**APPLICATIONS**

Laboratory Applications  
 R&D Lab Use  
 Radar Systems  
 Electronic Warfare  
 Telecom Infrastructure

Test Instrumentation  
 Military and Space  
 Communications Systems  
 Satellite Communications  
 Wireless Communications

Microwave Radio Systems  
 Power Amplifier  
 General Purpose Amplifier  
 RF Front Ends  
 Fiber Optic Interface

Freq. In GHz	Gain dB	P-1 dBm	Input VSWR	Output VSWR	Noise dB
0.1	36.3	12.7	1.44	1.20	1.82
3.075	36.6	13.4	1.44	1.39	1.48
6.05	36.6	13.7	1.16	1.28	1.77
9.025	36.9	13.1	1.64	1.22	2.12
12.0	36.2	13.2	1.13	1.59	2.56
Min.	36.1	12.7	---	---	---
Max.	37.5	---	1.72	1.59	2.56
Spec.	30.0-40.0	10.0 Min	2.00 Max	2.00 Max	2.80 Max.

$$\text{Bias @ +12.0 V, } I_T = \frac{210}{200} \text{ mA} = 1.05 \text{ mA TYP}$$

All Measurements Taken at 25°C Ambient Room

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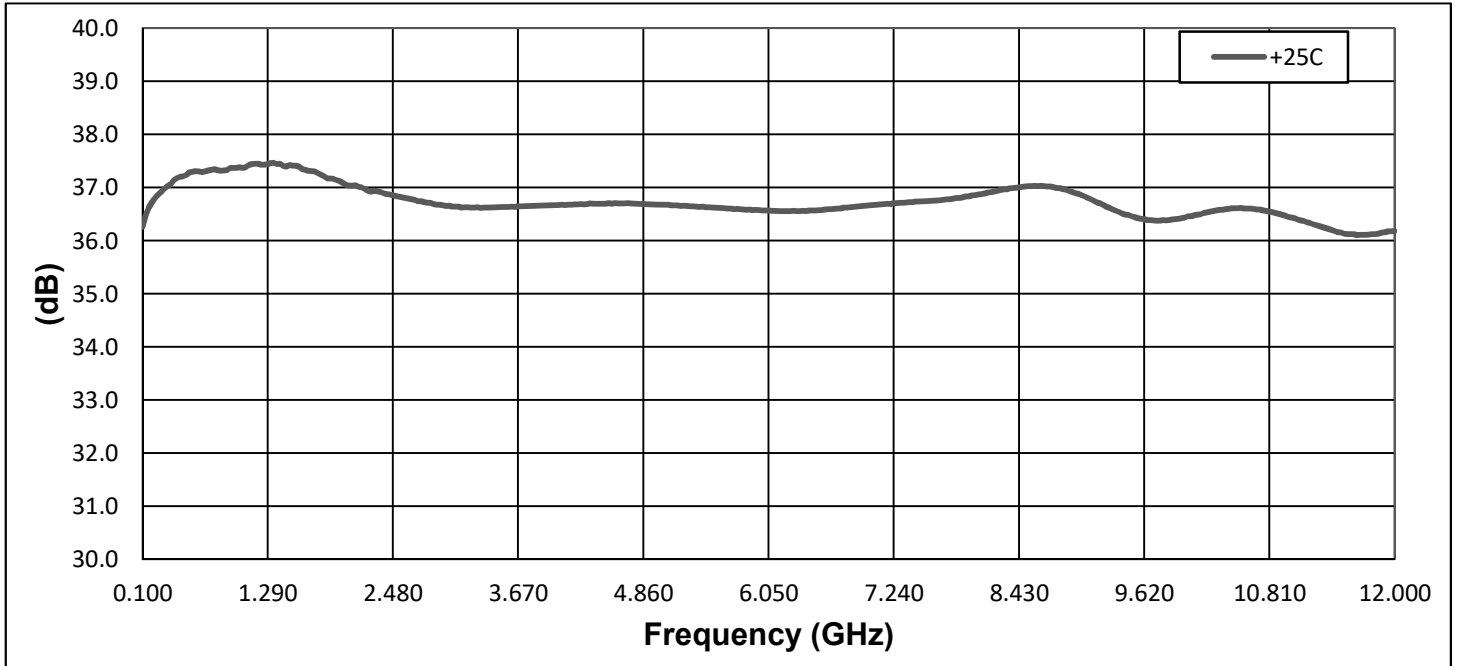
Broadband Frequency Operation

DATA PLOTS

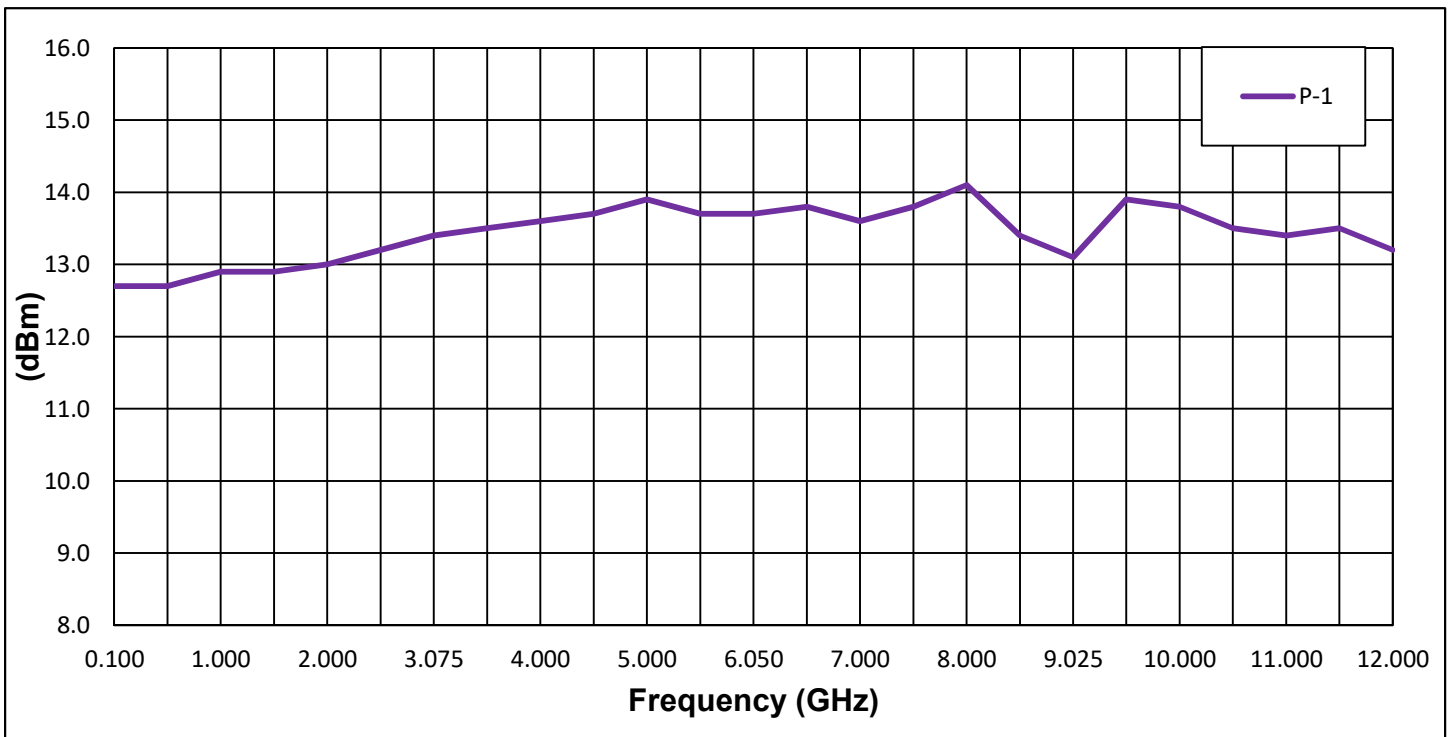
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## Gain



## Power dBm





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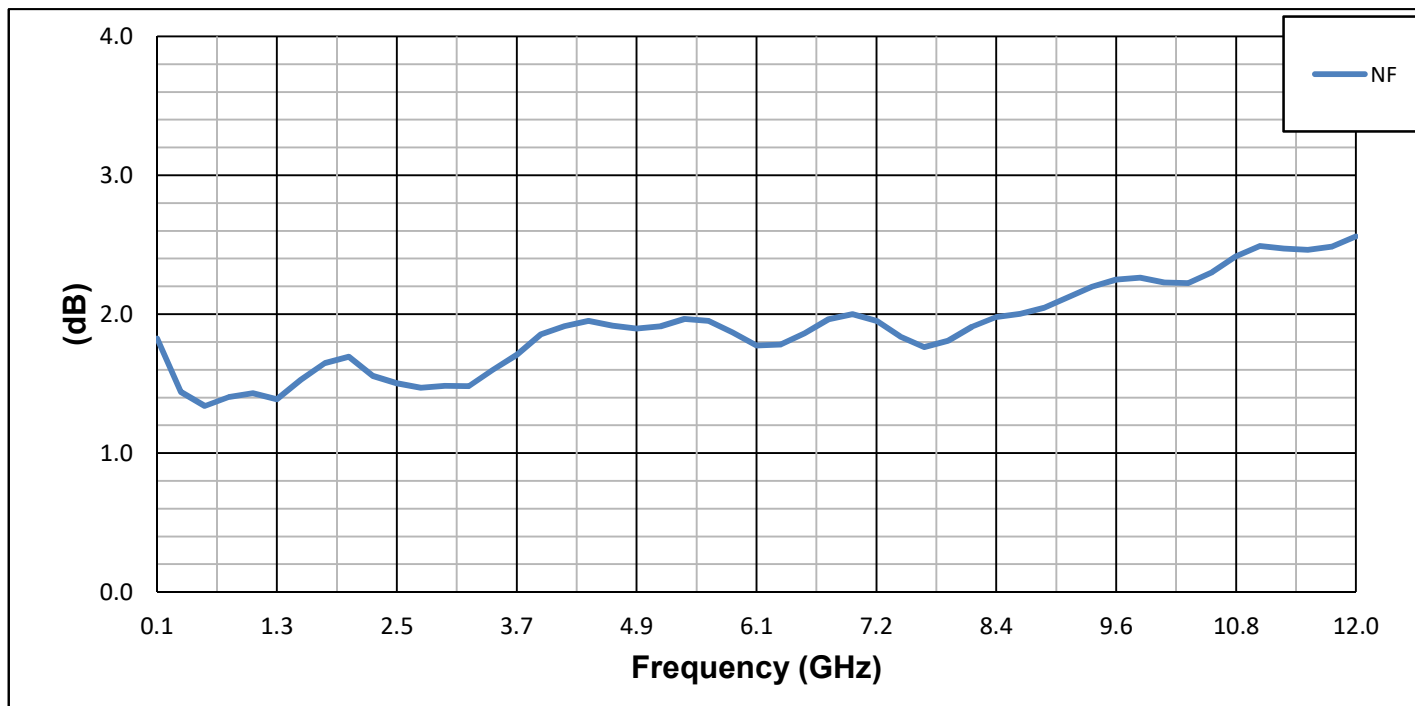
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## Noise



## Return Loss

