



# Wright Technologies Inc.

## Broadband Frequency Operation

**PERFORMANCE DATA**

**RoHS COMPLIANT**

**ASG20B-3015**  
Serial # 0022

**FEATURES**

- \* Operating Frequency: 1.0 - 20.0 GHz
- \* P-1dB: 15.00 dBm Min
- \* Small Signal Gain: 30.00 dB Min
- \* Gain Flatness: +/- 1.75 dB Full Band
- \* High Output IP3: 25.0 dBm Typ
- \* Noise Figure: 3.50 dB Max
- \* 50 Ohm Input and Output Matched
- \* -40 to +75 °C Operating Temperature
- \* Unconditionally Stable
- \* Single DC Bias Supply
- \* Built-in DC Voltage regulation
- \* Small Size and Weight, Yet Robust

**APPLICATIONS**

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

Freq. In GHz	Gain dB	P-1 dBm	Input VSWR	Output VSWR	Noise dB
1.000	35.92	21.69	1.76	1.09	2.14
5.750	34.89	20.99	1.37	1.29	1.99
10.500	35.87	21.89	1.17	1.29	2.21
15.250	34.36	20.74	1.63	1.25	2.52
20.000	34.72	18.95	1.42	1.39	3.07
Min	34.19	18.95	---	---	---
Max	36.06	---	1.77	1.64	3.07
Spec	30.00 Min	15.00 Min	2.20 Max	2.20 Max	3.50 Max

Bias @ +12.0V, IT =  $\frac{310}{225}$  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



# Wright Technologies Inc.

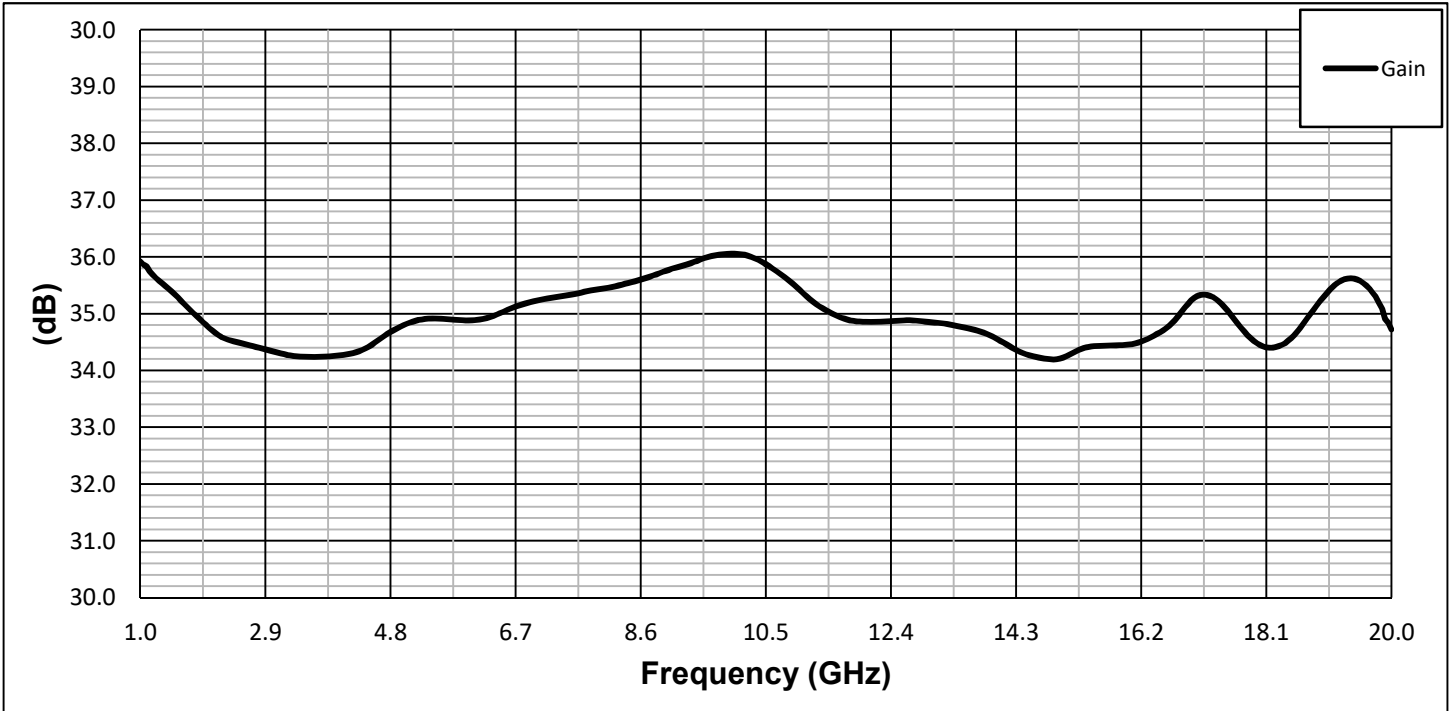
Broadband Frequency Operation

DATA PLOTS

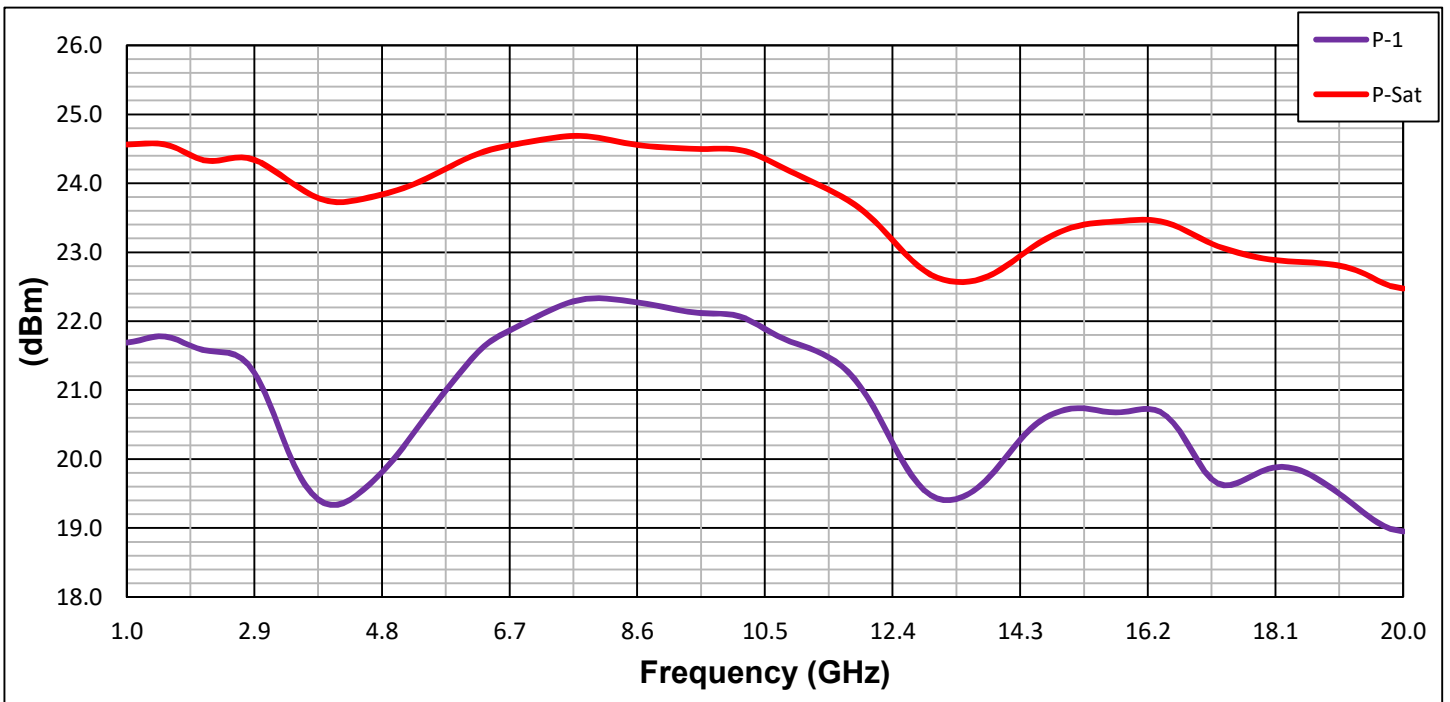
RoHS COMPLIANT

ASG20B-3015  
Serial # 0022

## Gain



## Power





# Wright Technologies Inc.

Broadband Frequency Operation

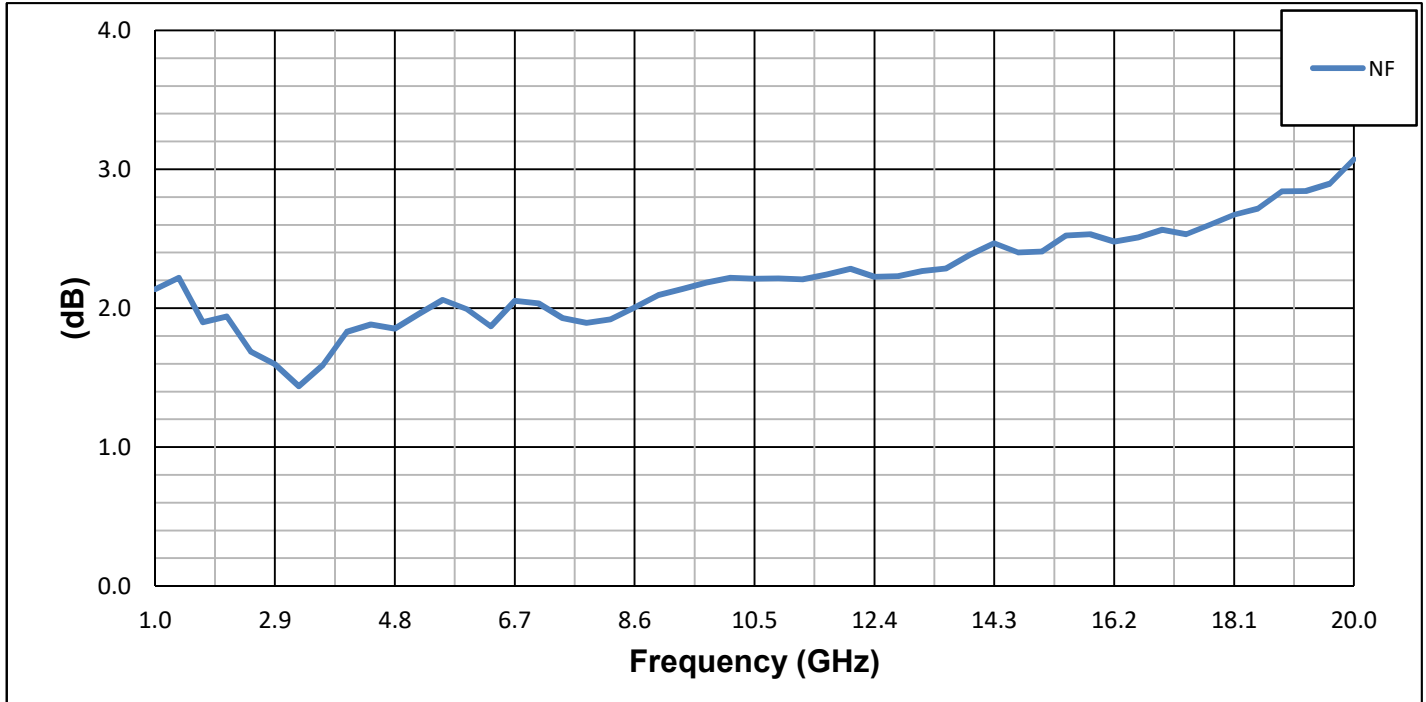
DATA PLOTS

RoHS COMPLIANT

ASG20B-3015

Serial # 0022

## Noise



## Return Loss

