



Wright Technologies Inc.

Broadband Frequency Operation

TECHNICAL DATA SHEET

RoHS COMPLIANT

ASG-18B3020
0008

FEATURES

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| <ul style="list-style-type: none"> * 0.1-18 Ghz Frequency Operation * P-1dB: +20 dBm minimum * Small Signal Gain: 30-40 dB minimum * Gain Flatness: +/- 1.75 dB full band * High Output IP3: 30 dBm typ. * Noise Figure: 5.0 dB maximum | <ul style="list-style-type: none"> * 50 Ohm Input and Output Matched * -20 to +75 °C Operating Temperature * Unconditionally Stable * Single DC Bias Supply * Built-in DC Voltage regulation * Small Size and Weight, Yet Robust |
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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	32.5	24.3	1.49	1.31	3.9
4.5	31.4	24.0	1.10	1.06	2.9
9.0	31.7	23.4	1.24	1.32	2.4
13.5	30.1	21.2	1.63	1.39	3.1
18.0	30.2	20.2	1.42	1.89	3.8
Min.	30.1	20.2	---	---	---
Max.	32.5	---	1.80	2.10	3.9
Spec.	30.0 - 40.0	20.0 Min	2.20 Max	2.20 Max	4.5 Max

$$\text{Bias @ +12.0 V, } I_T = \frac{310}{700} \text{ mA TYP}$$

All Measurements Taken at 25°C Ambient Room

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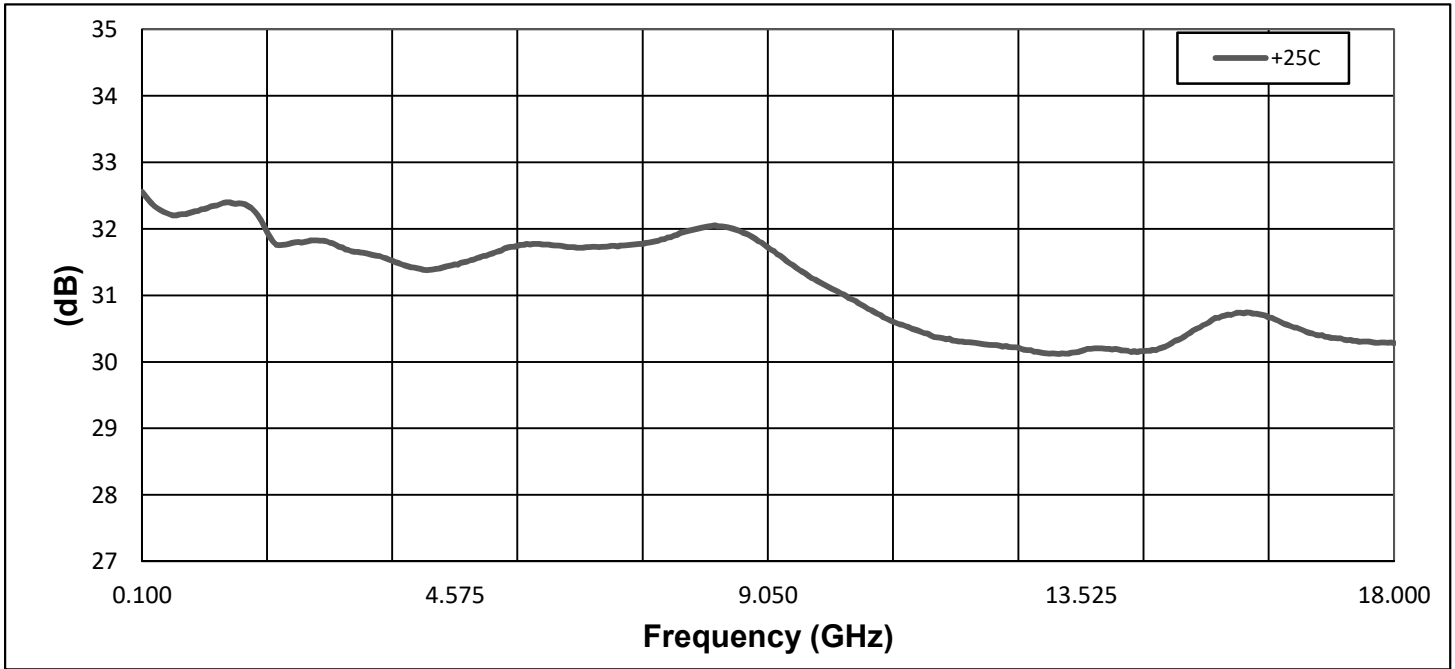
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DATA PLOTS

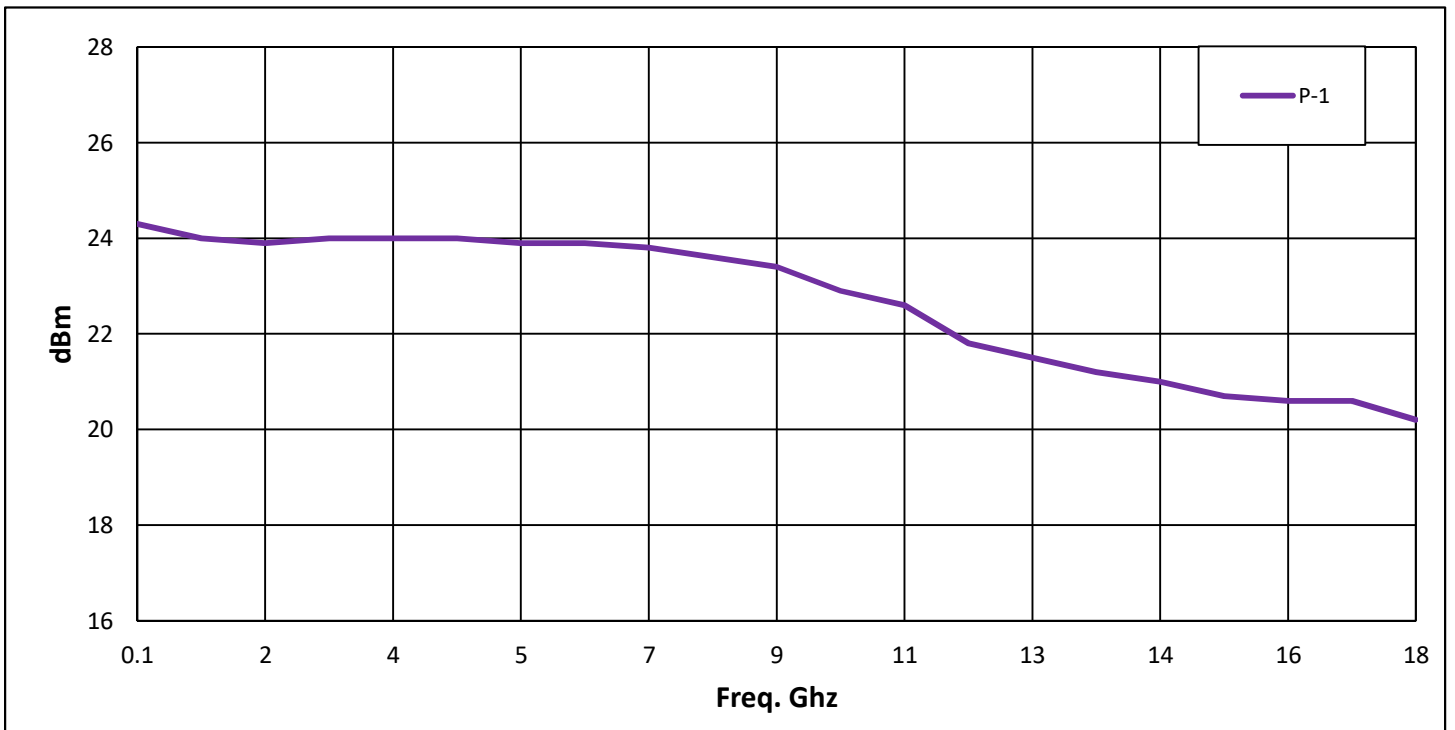
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Gain



Power dBm





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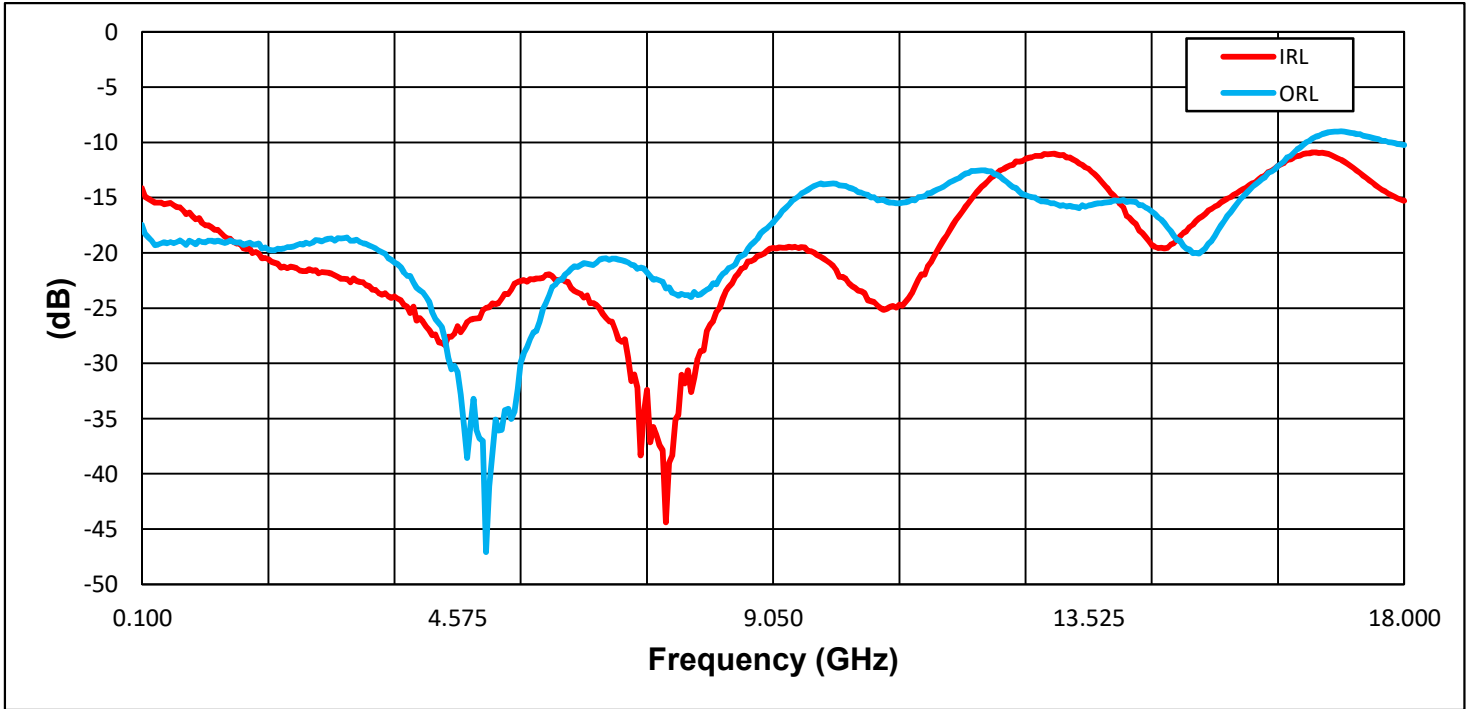
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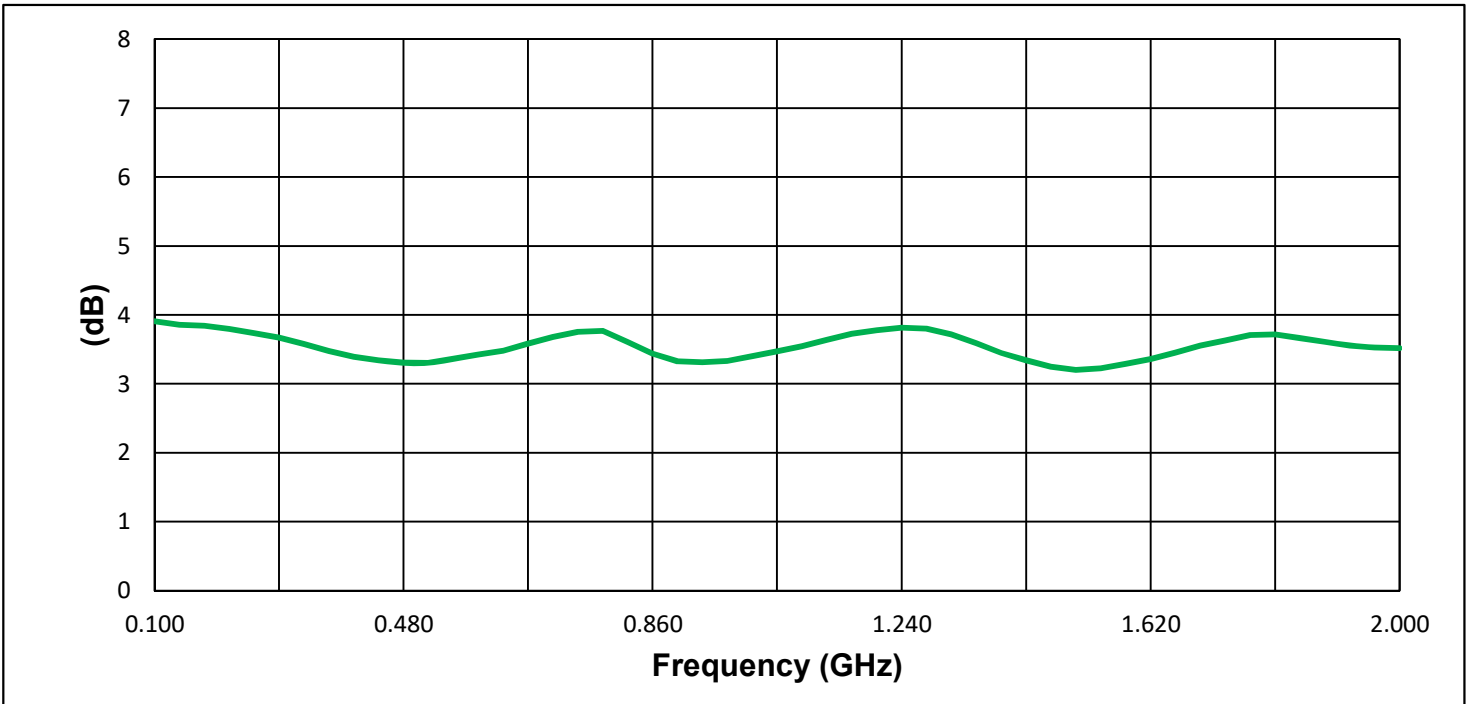
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Return Loss



Noise (100 MHz-2 GHz)





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Noise (2 GHz-18 GHz)

