



Wright Technologies Inc.

Broadband Frequency Operation

PERFORMANCE DATA

RoHS COMPLIANT

ASL-18B2518L

Serial # 0007

FEATURES

- * Operating Frequency: 0.1 - 20.0 GHz
- * P-1dB: 18.00 dBm Min
- * Small Signal Gain: 25.00 - 35.00 dB
- * Gain Flatness: +/- 1.75 dB Full Band
- * High Output IP3: 28.0 dBm Typ
- * Noise Figure: 3.80 dB Max

- * 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

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
0.100	29.01	20.63	2.08	2.13	3.56
5.075	28.47	22.18	1.33	1.19	2.25
10.050	29.12	21.51	1.32	1.37	2.57
15.025	28.65	19.96	1.43	1.37	3.29
20.000	29.24	19.51	1.24	1.22	3.59
Min	28.05	18.94	---	---	---
Max	29.86	---	2.08	2.13	3.64
Spec	25.00 - 32.00	18.00 Min	2.20 Max	2.20 Max	3.80 Max

$$\text{Bias @ +12.0V, } I_T = \frac{300}{300} \text{ mA} = 1 \text{ mA Typ}$$

All Measurements Taken at +25°C (Ambient Room)

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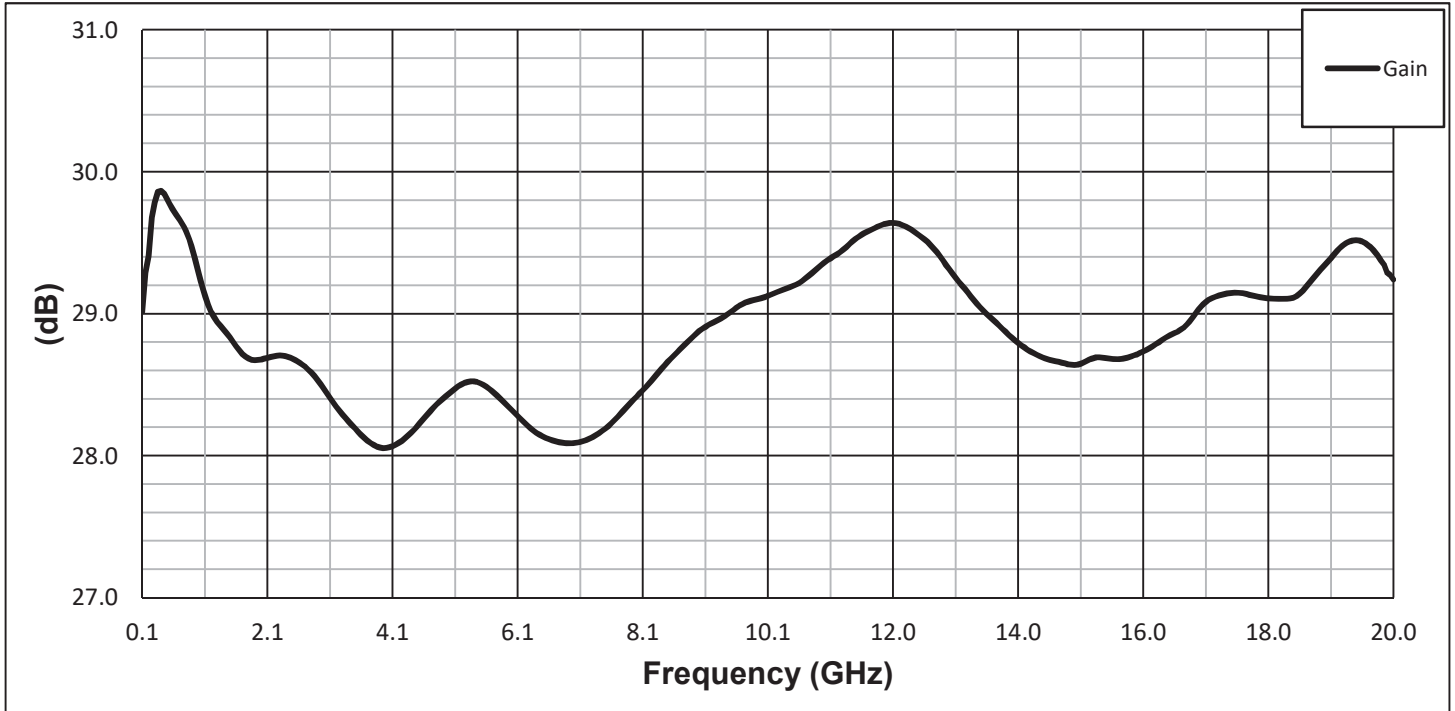
Broadband Frequency Operation

DATA PLOTS

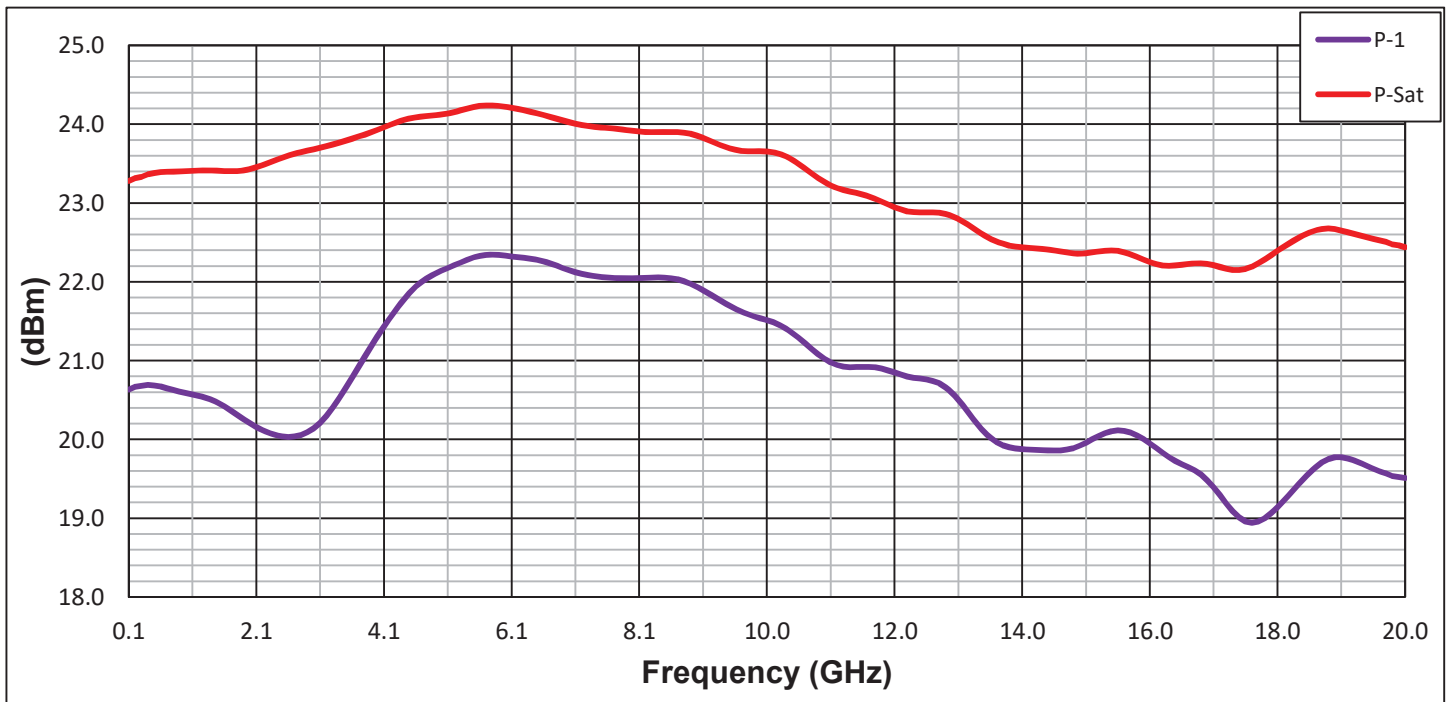
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Gain



Power





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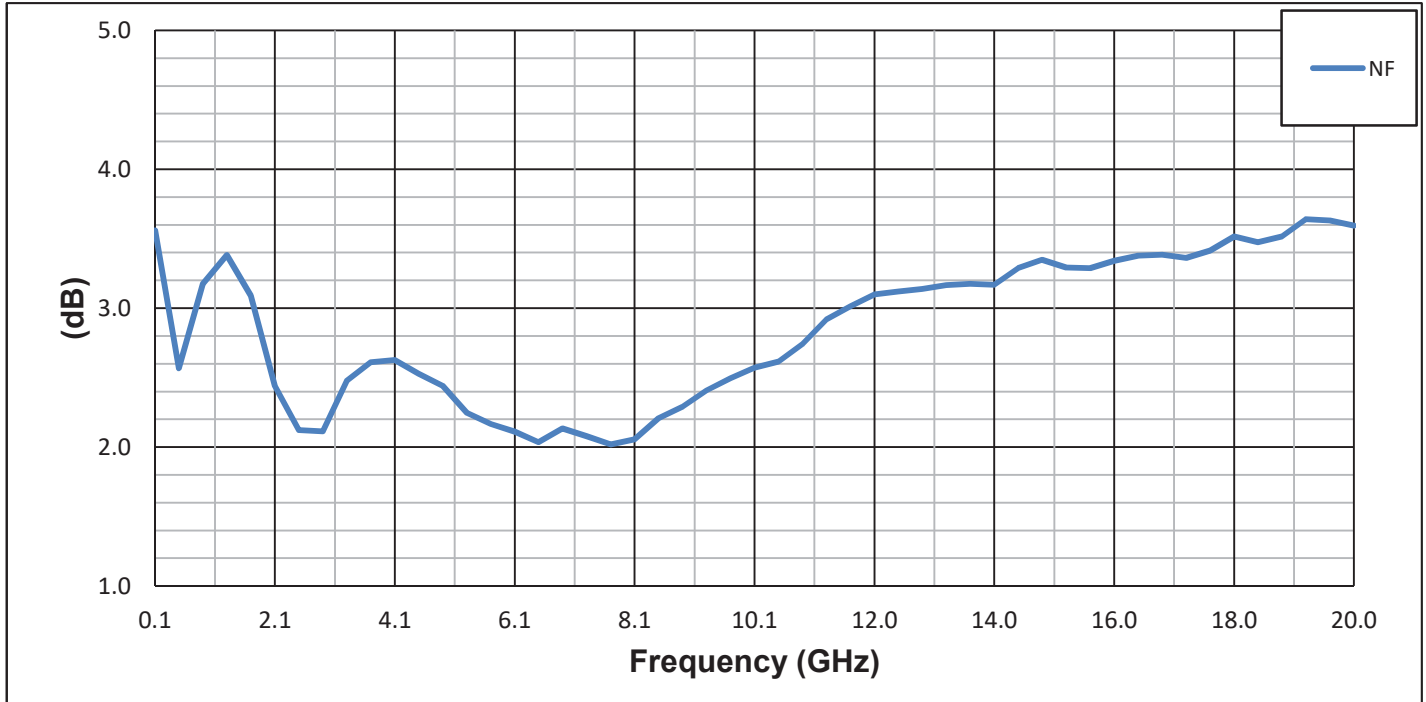
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Noise



Return Loss

