



Wright Technologies Inc.

Broadband Frequency Operation

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| PERFORMANCE DATA |
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RoHS COMPLIANT

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| ASL40-B2515 |
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| 0001 |
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FEATURES

- | | |
|---|--|
| <ul style="list-style-type: none"> * 18-40 Ghz Frequency Operation * P-1dB: +15 dBm minimum * Small Signal Gain: 25-35 dB minimum * Gain Flatness: +/- 2.5 dB full band * High Output IP3: 24 dBm typ. * Noise Figure: 5.0 dB maximum | <ul style="list-style-type: none"> * 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 |
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APPLICATIONS

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|---|---|---|
| <ul style="list-style-type: none"> Laboratory Applications R&D Lab Use Radar Systems Electronic Warfare Telecom Infrastructure | <ul style="list-style-type: none"> Test Instrumentation Military and Space Communications Systems Satellite Communications Wireless Communications | <ul style="list-style-type: none"> 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 |
|-----------------|------------|------------|---------------|----------------|-------------|
| 18.0 | 33.1 | 15.9 | 2.44 | 1.78 | 4.9 |
| 23.5 | 31.2 | 15.5 | 1.16 | 1.53 | 3.6 |
| 29.0 | 31.6 | 15.3 | 1.51 | 2.01 | 3.7 |
| 34.5 | 32.4 | 17.3 | 1.68 | 1.07 | 4.1 |
| 40.0 | 32.4 | 17.8 | 1.86 | 1.49 | 4.7 |
| | | | | | |
| | | | | | |
| Min. | 30.6 | 15.1 | --- | --- | --- |
| Max. | 34.2 | --- | 2.44 | 2.04 | 4.9 |
| Spec. | 25-35 | 15 min | 2.5 Max | 2.5 Max | 5.0 Max |

Bias @ +12.0 V, IT = 350 mA
 350 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

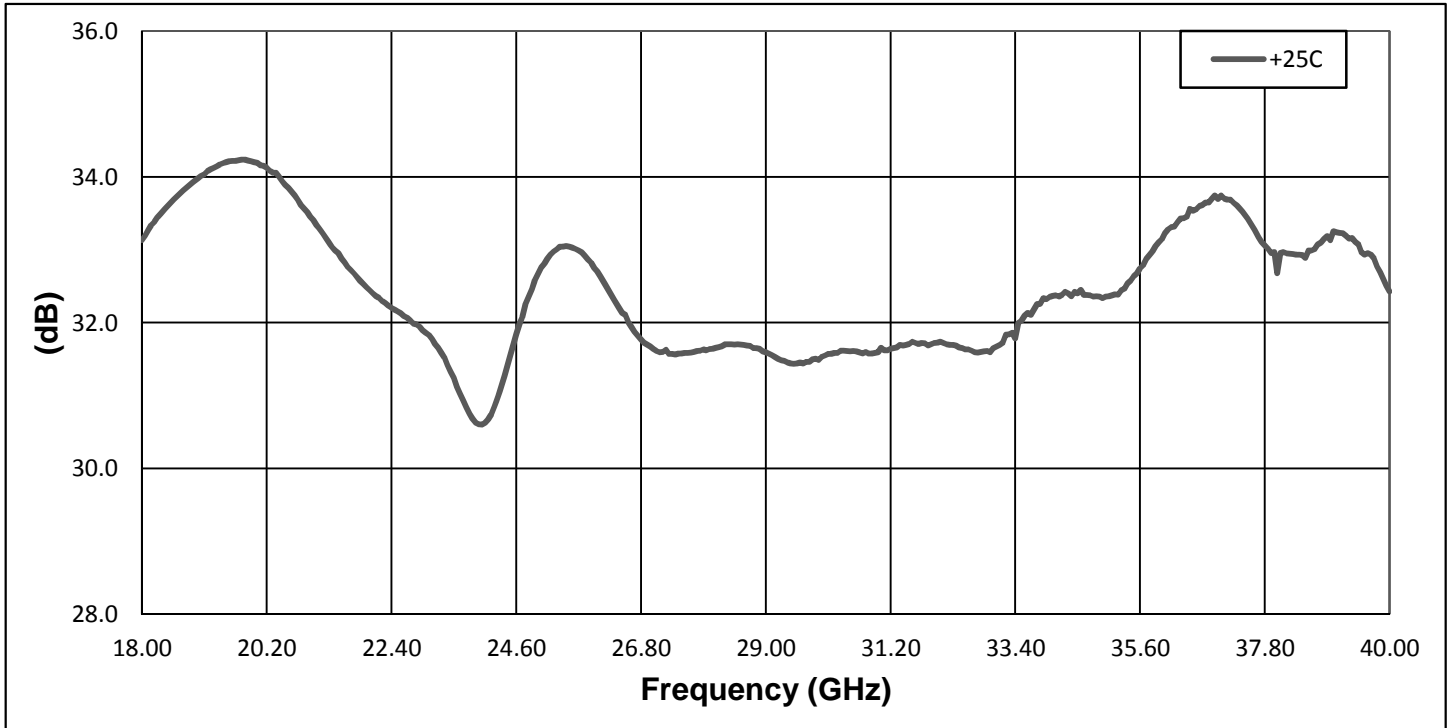
DATA PLOTS

RoHS COMPLIANT

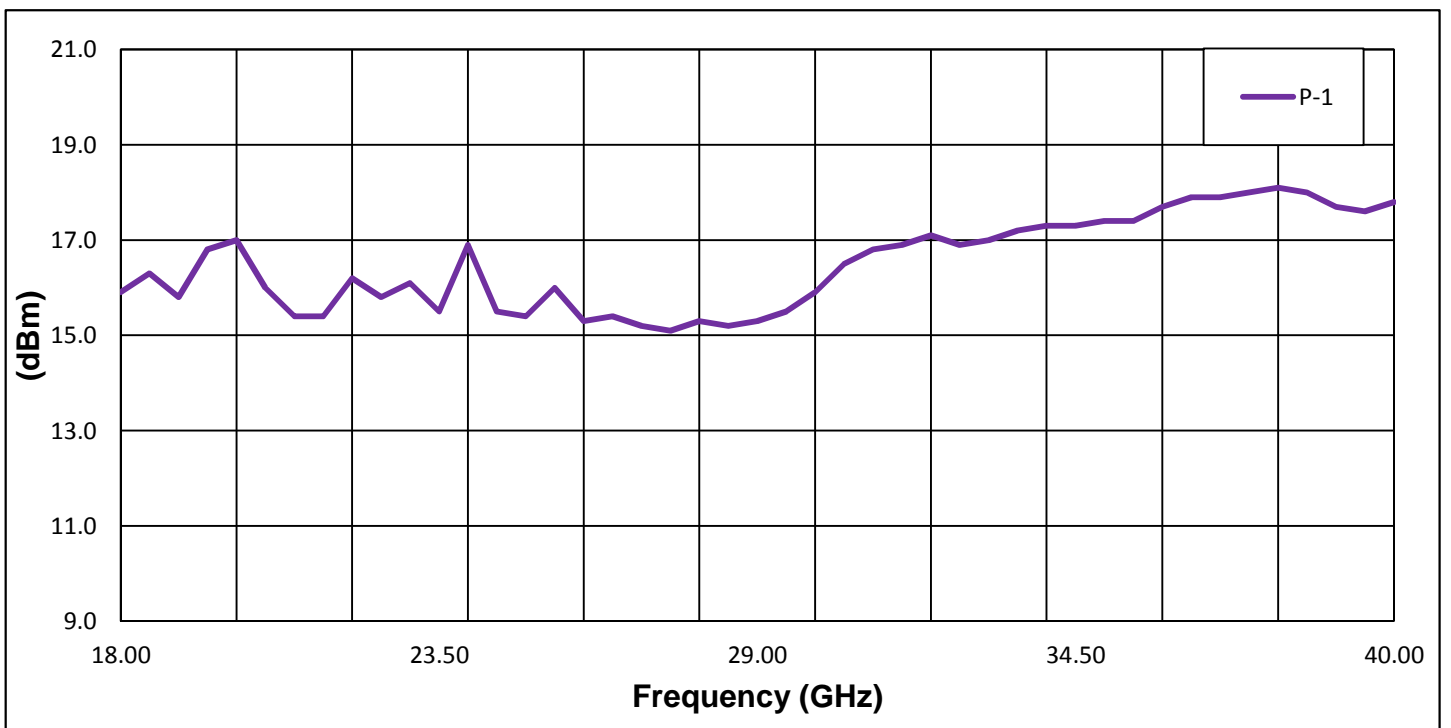
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Gain



Power dBm





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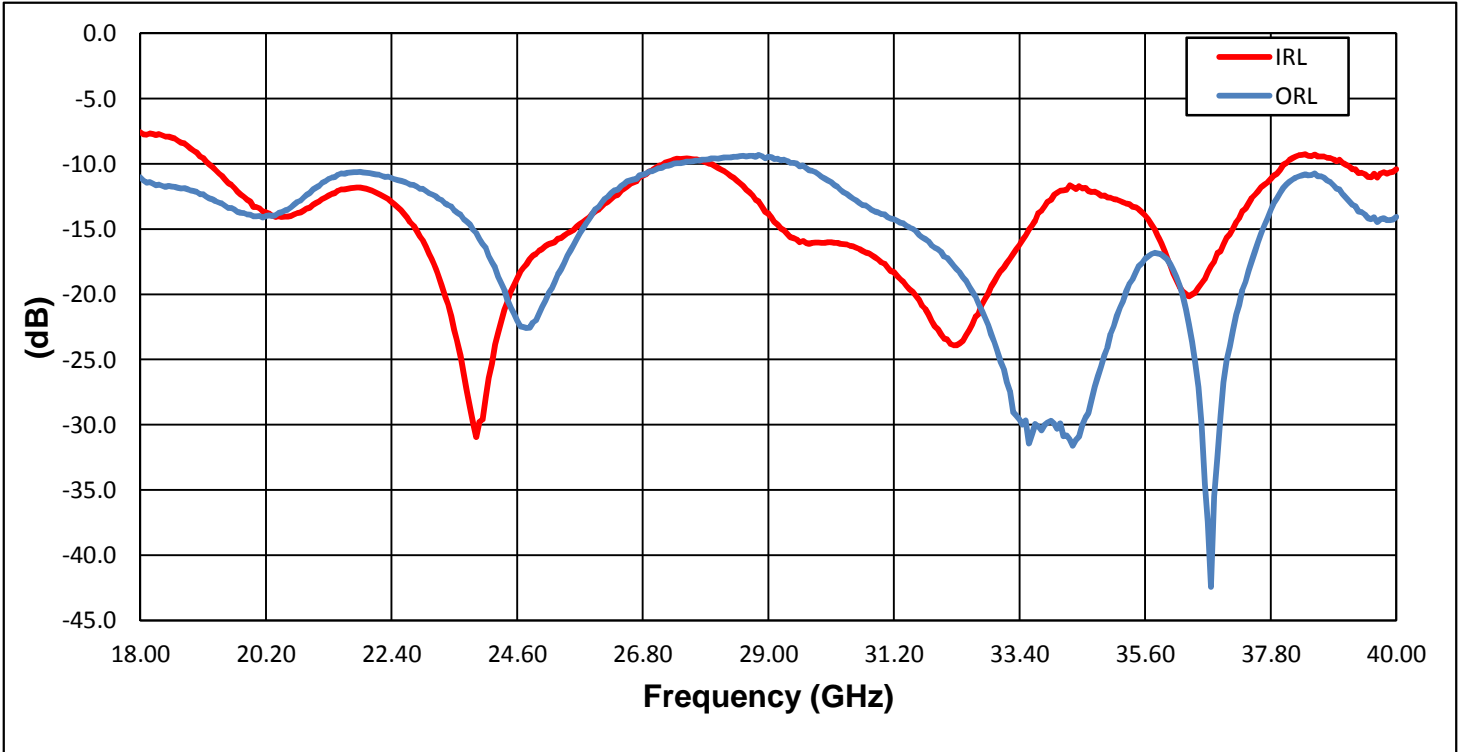
Broadband Frequency Operation

DATA PLOTS

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Return Loss



Noise (18-40 GHz)

