



Wright Technologies Inc.

Broadband Frequency Operation

PERFORMANCE DATA

RoHS COMPLIANT

APS14-0034R1
Serial # 0480

FEATURES

- | | |
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| <ul style="list-style-type: none"> * 1.0 - 20.0 GHz Frequency Operation * Input Power: -25.0 - 12.0 dBm * Output Power: 15.0 - 21.0 dBm * Harmonics: 10.0 dBc Min 1-20 GHz * Noise: 7.0 dB Max 1-20 GHz | <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

- | | | |
|---|---|---|
| <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 GHz	Harmonics @ -25 P In dBc	P Out @ -25 P In dBm	Harmonics @ 12 P In dBc	P Out @ 12 P In dBm	Input VSWR	Output VSWR	Noise dB
1.00	16.19	17.62	12.39	16.68	2.09	1.81	4.66
5.75	12.83	17.98	12.66	18.10	1.27	1.60	2.25
10.50	19.36	17.97	18.77	17.93	1.45	1.33	2.34
15.25	26.15	17.94	24.85	18.28	1.17	1.74	3.03
20.00	29.66	16.71	27.62	16.62	1.24	1.36	3.72
Min	11.62	16.71	11.47	16.62	---	---	---
Max	29.66	18.62	27.62	18.67	2.09	1.84	4.66
Spec	10.0 Min 2-20 GHz	15.0 - 21.0	10.0 Min 2-20 GHz	15.0 - 21.0	2.50 Max	2.50 Max	7.00 Max

$$\text{Bias @ +12.0 V, IT} = \frac{410}{500} \text{ mA Typ}$$

All Measurements Taken at 25°C Ambient Room

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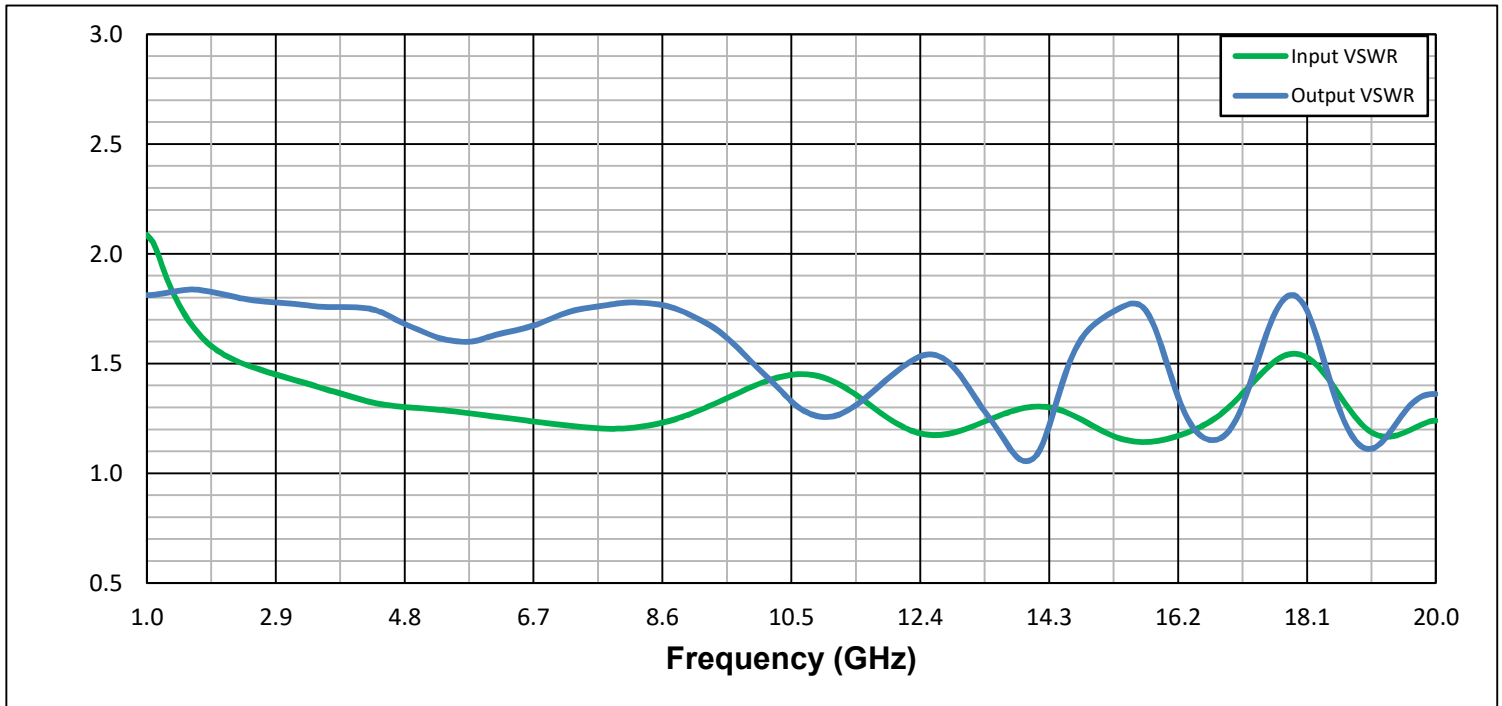
DATA PLOTS

RoHS COMPLIANT

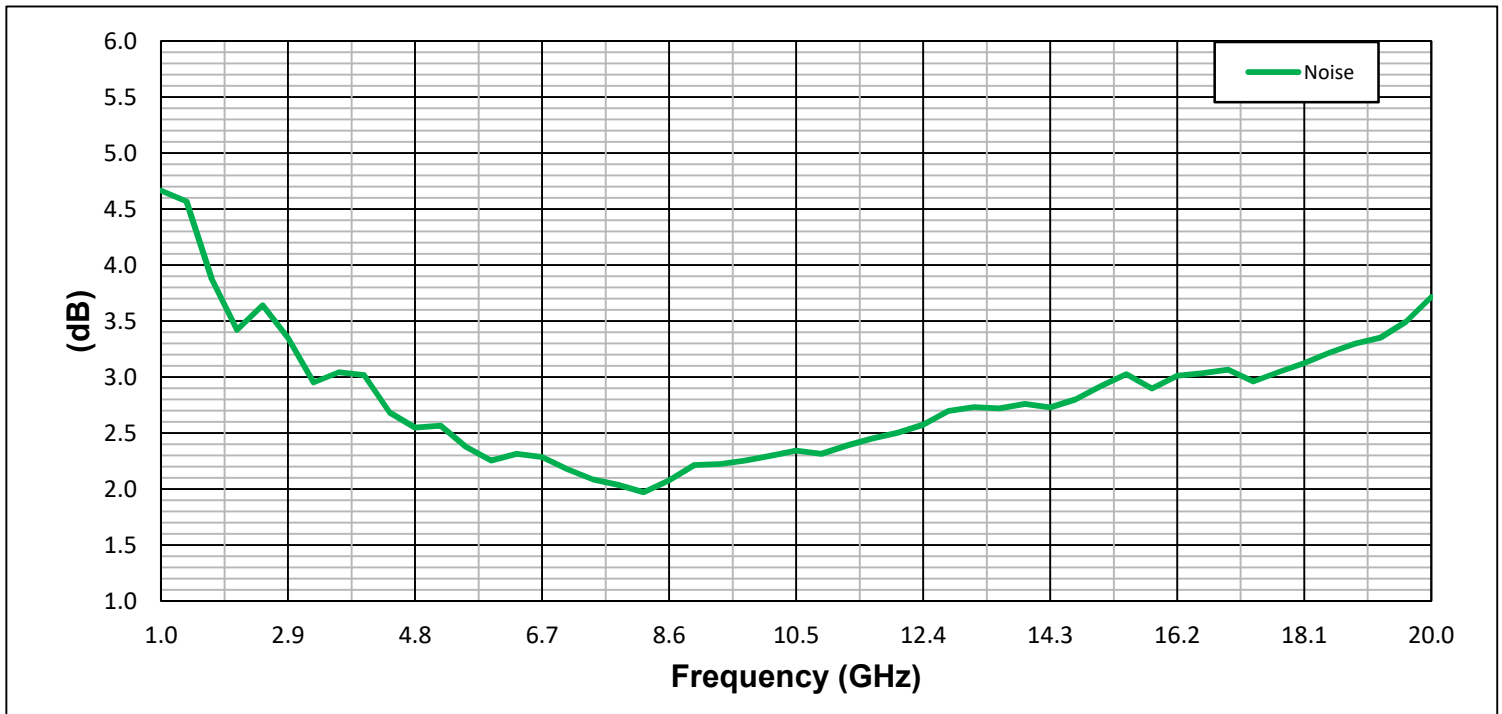
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VSWR



Noise





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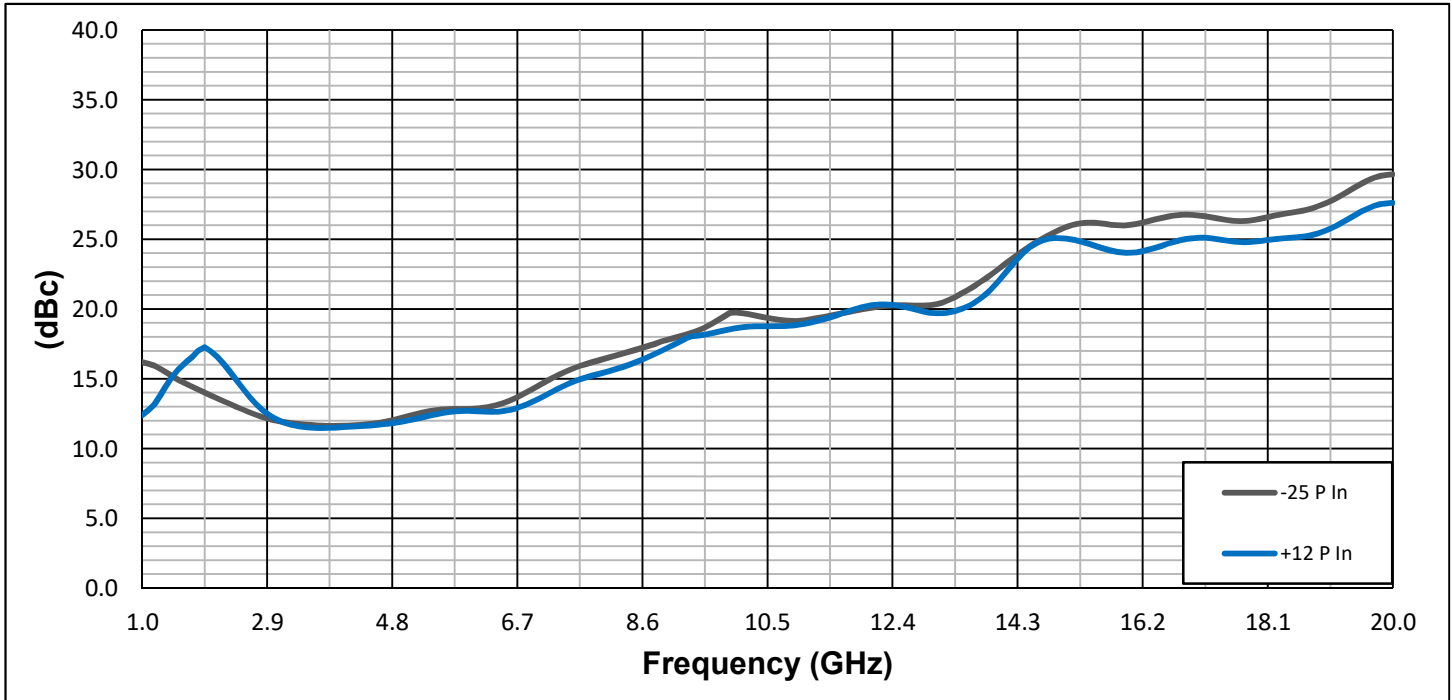
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Harmonics



Power

