



Wright Technologies Inc.

Broadband Frequency Operation

PERFORMANCE DATA

RoHS COMPLIANT

LSS20-B2515

Serial # 0049

FEATURES

- * 2.0 - 20.0 GHz Frequency Operation
- * Input Power: -25.0 - 12.0 dBm
- * Output Power: 15.0 - 20.0 dBm
- * Harmonics: 10.0 dBc Min 2-20 GHz

- * 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 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
2.00	13.39	17.25	13.34	17.14	1.59	1.84	3.35
6.50	14.18	17.95	13.06	18.10	1.19	1.63	2.31
11.00	19.56	17.85	21.02	17.98	1.33	1.22	2.36
15.50	26.95	17.48	24.59	17.86	1.13	1.98	2.97
20.00	29.35	16.57	28.13	16.56	1.23	1.47	3.89
Min	11.70	16.57	11.38	16.56	---	---	---
Max	29.35	18.38	28.13	18.57	1.59	2.01	3.89
Spec	10.0 Min 2-20 GHz	15.0 - 20.0	10.0 Min 2-20 GHz	15.0 - 20.0	2.20 Max	2.20 Max	6.50 Max

$$\text{Bias @ +12.0 V, } I_T = \frac{400}{500} \text{ mA Typ}$$

All Measurements Taken at 25°C Ambient Room

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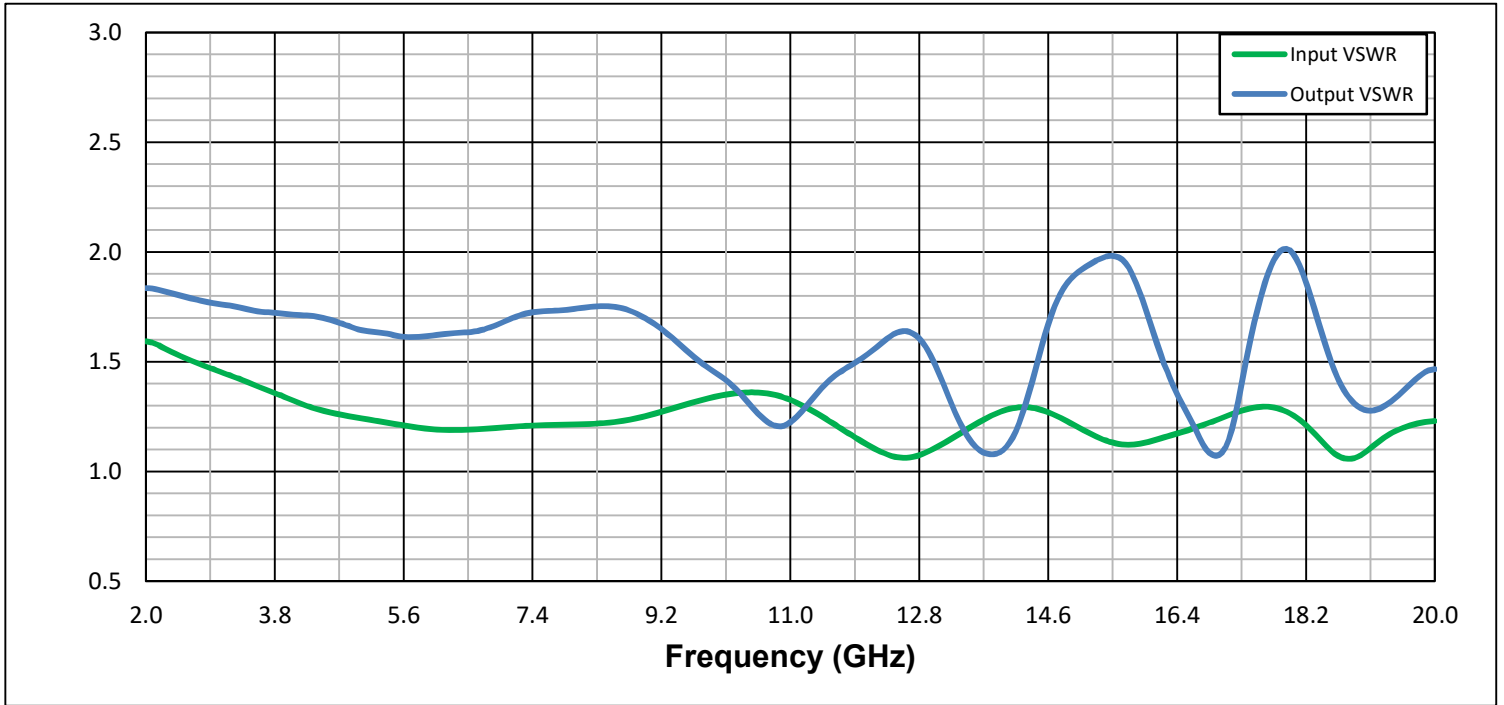
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DATA PLOTS

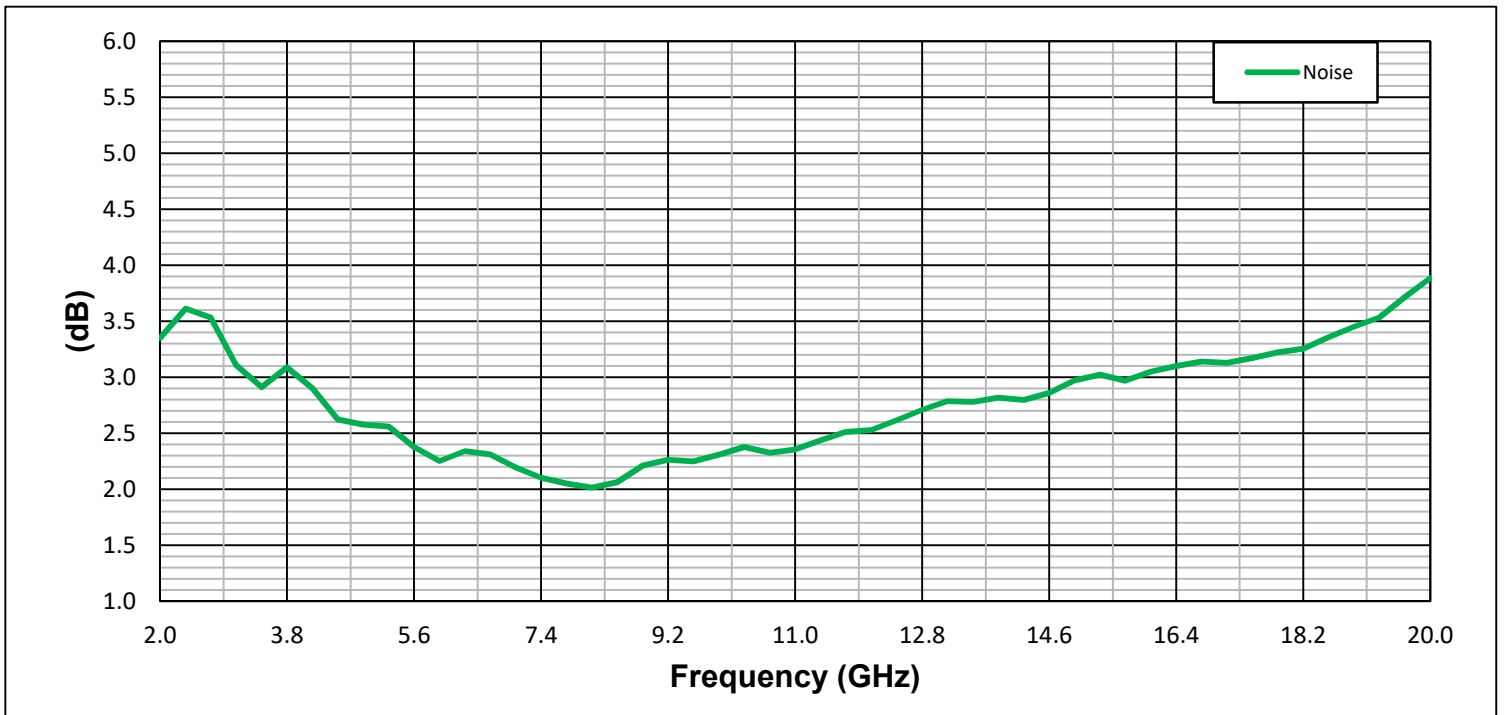
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VSWR



Noise





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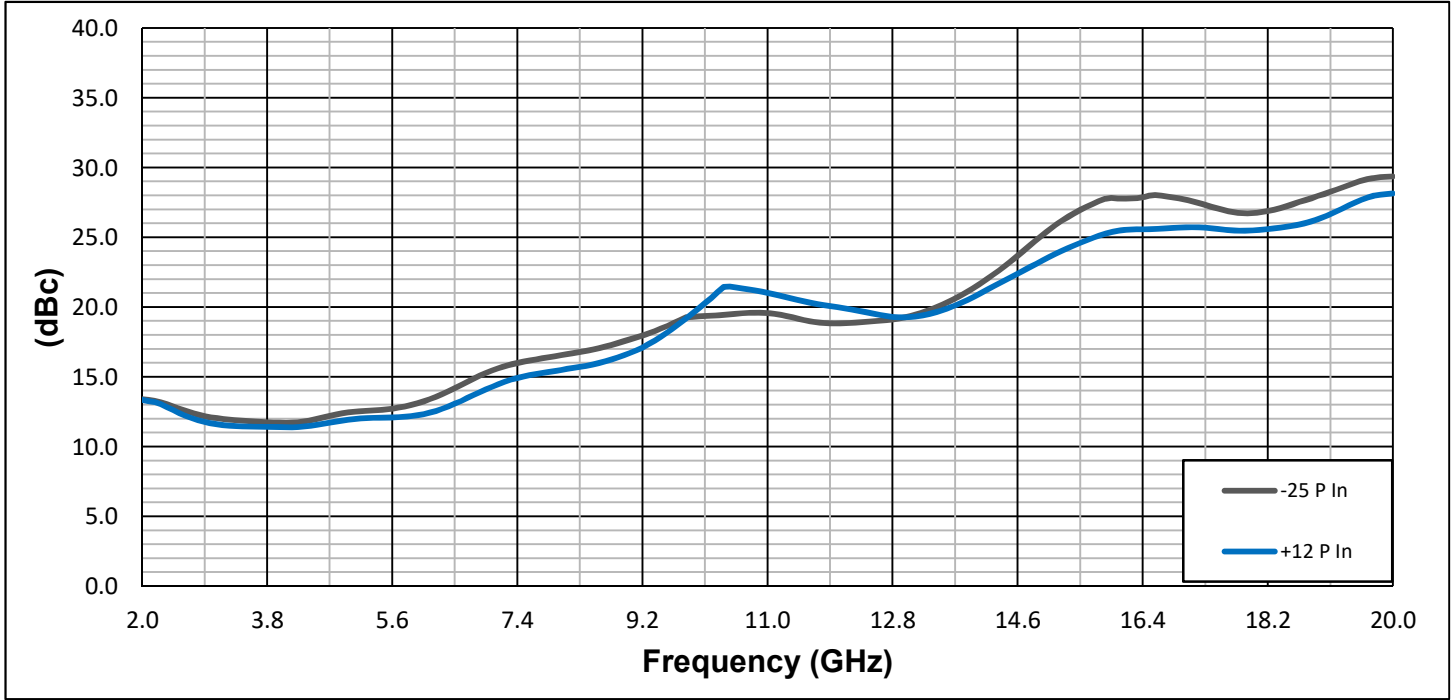
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Harmonics



Power

