



Wright Technologies Inc.

Broadband Frequency Operation

PERFORMANCE DATA

RoHS COMPLIANT

ASL20B-4019
Serial # 0009

FEATURES

- * Operating Frequency: 1.0 - 20.0 GHz
- * P-1dB: 19.00 dBm Min
- * Small Signal Gain: 42.00 Min dB
- * Gain Flatness: +/- 2.00 dB Full Band
- * High Output IP3: 29.0 dBm Typ
- * Noise Figure: 3.00 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 | Test Instrumentation | Microwave Radio Systems |
| R&D Lab Use | Military and Space | Power Amplifier |
| Radar Systems | Communications Systems | General Purpose Amplifier |
| Electronic Warfare | Satellite Communications | RF Front Ends |
| Telecom Infrastructure | Wireless Communications | Fiber Optic Interface |

Freq. In GHz	Gain dB	P-1 dBm	Input VSWR	Output VSWR	Noise dB
1.000	46.53	22.03	1.32	1.08	1.97
5.750	43.90	22.00	1.57	1.25	1.78
10.500	44.70	22.77	1.34	1.30	2.00
15.250	45.37	21.92	1.49	1.24	2.09
20.000	44.37	20.29	1.53	1.15	2.59
Min	43.79	19.93	---	---	---
Max	46.53	---	1.70	1.80	2.59
Spec	42.00 Min	19.00 Min	2.00 Max	2.50 Max	3.00 Max

Bias @ +12.0V, IT = $\frac{310}{300}$ mA
mA Typ

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

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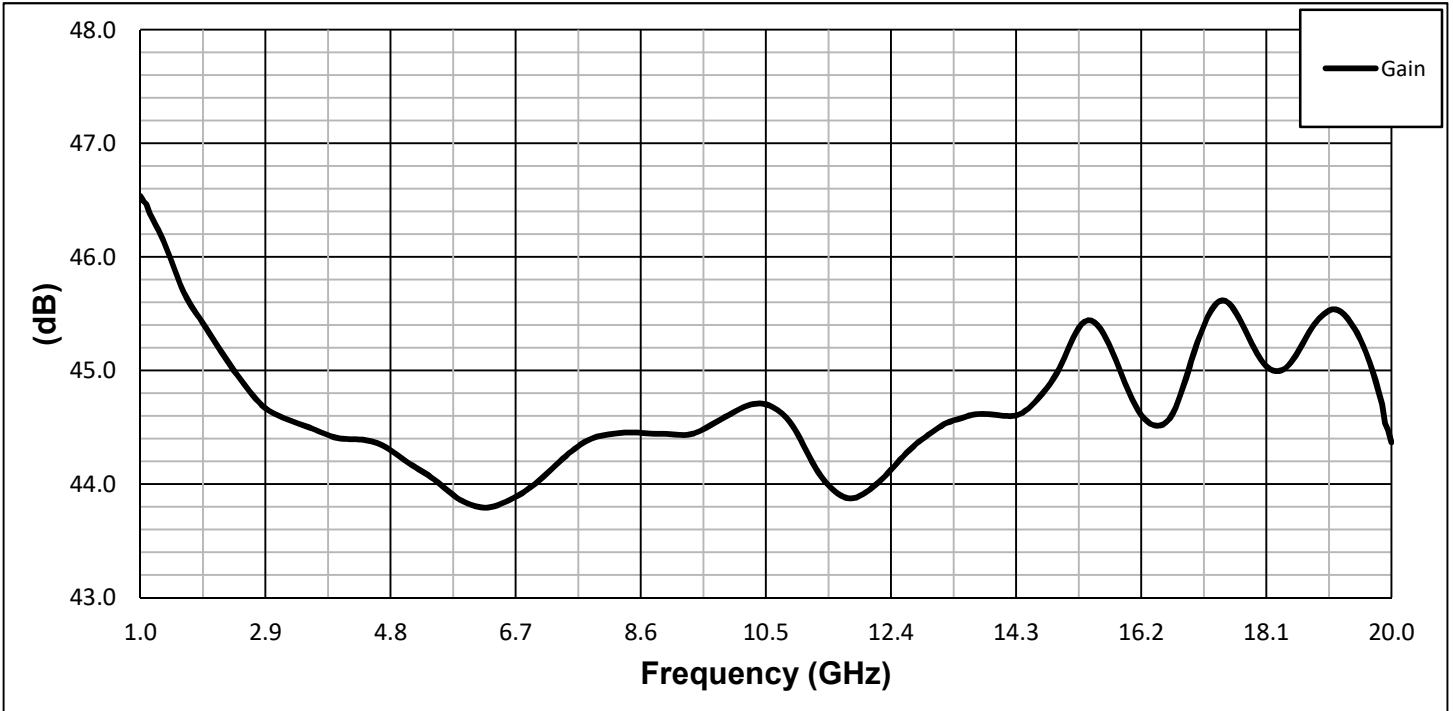
Broadband Frequency Operation

DATA PLOTS

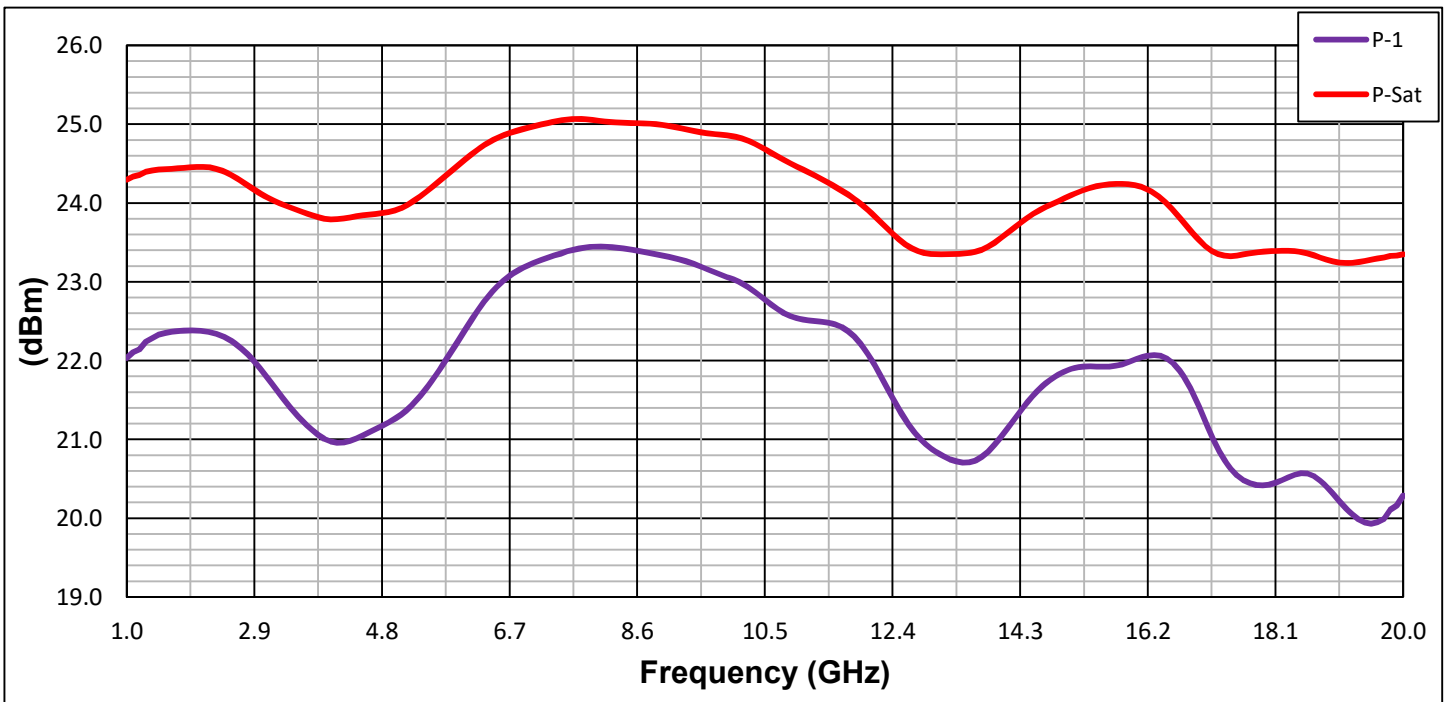
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Gain



Power





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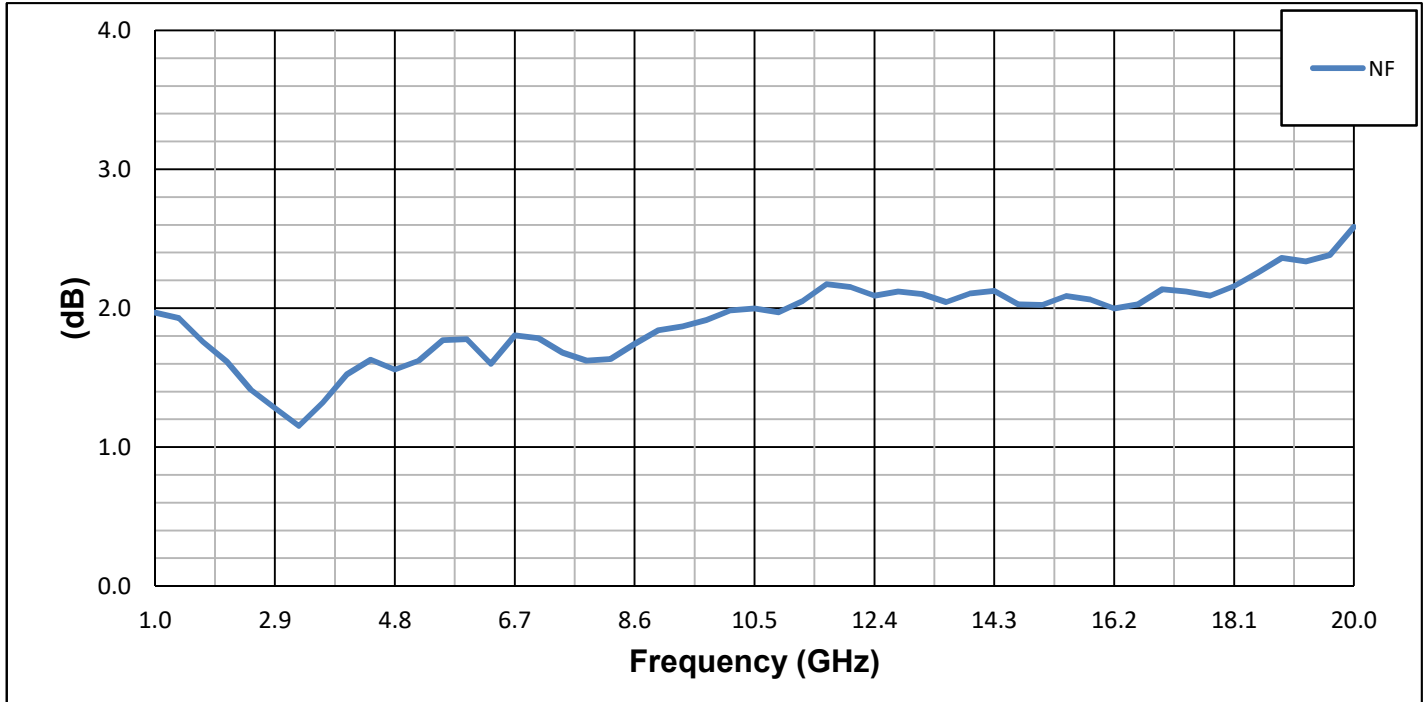
DATA PLOTS

RoHS COMPLIANT

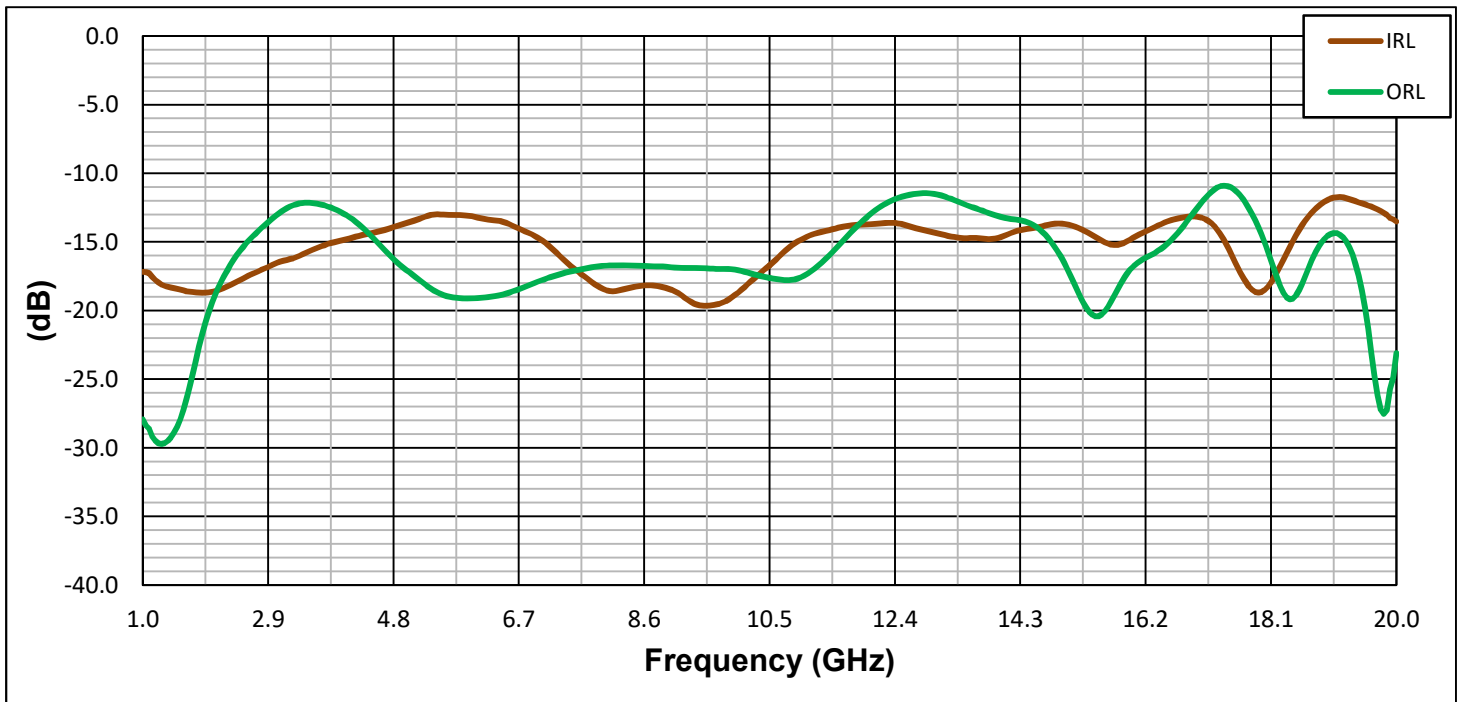
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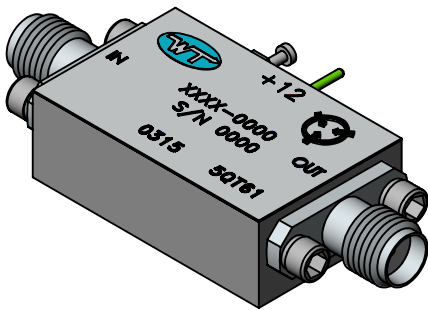
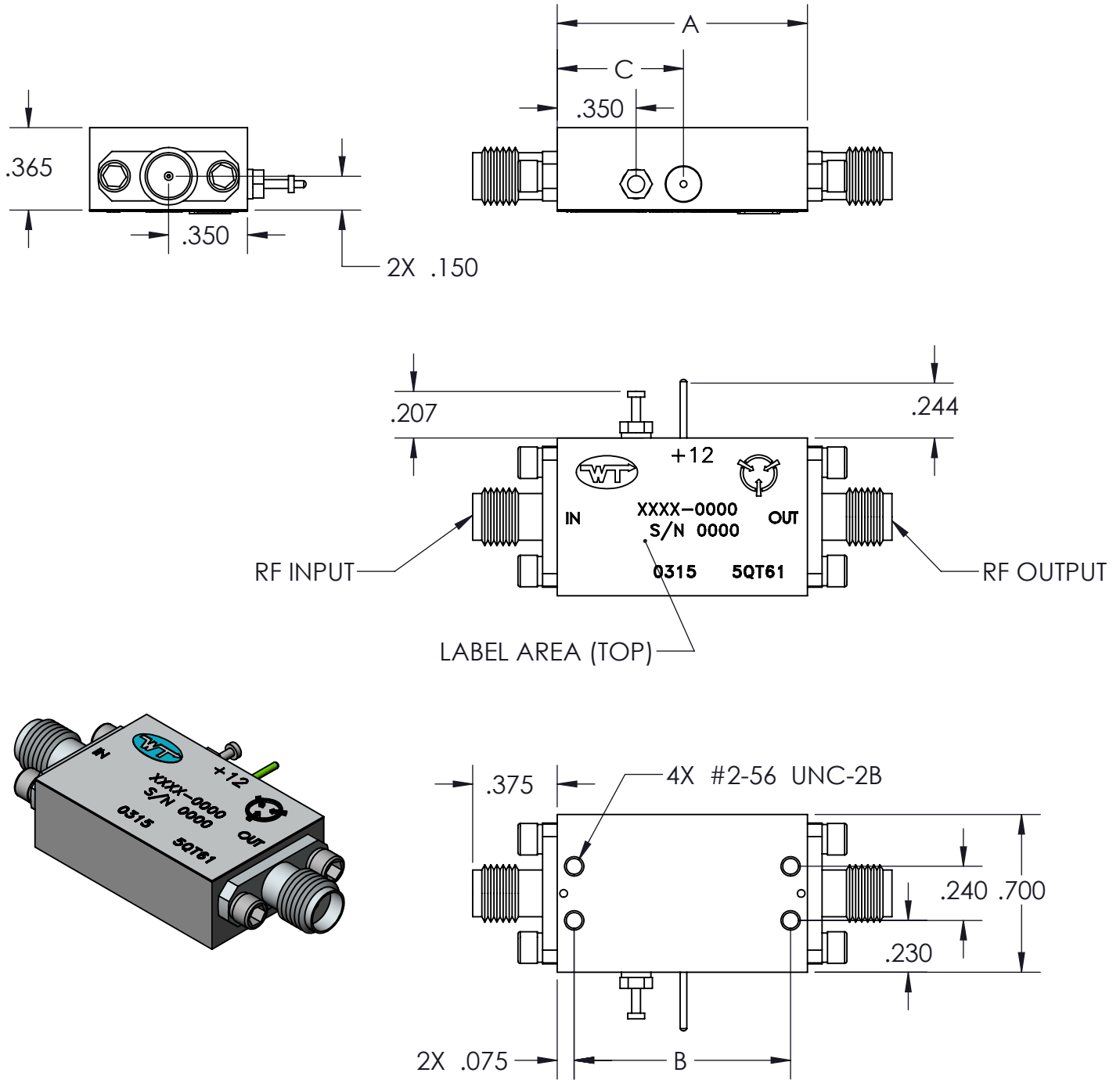
Noise



Return Loss



WT PROPRIETARY RELEASE SUBJECT TO CHANGE



COAX CONNECTOR OPTIONS:
 SMA, 2.9mm, 2.4mm
WAVEGUIDE OPTION AVAILABLE
UPON CUSTOMER REQUEST

APPLICATION NOTES:
 UNLESS OTHERWISE SPECIFIED

1) ALL DIMENSION TOLERANCES
 ±.010 AFTER PLATING

2) STANDARD RF CONNECTORS ARE
 FEMALE.

3) INTERPRET DRAWING PER ASME
 Y14.5M-1994

TYPE	A	B	C	D
6	1.510	1.360	.960	.750

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TITLE

WT STANDARD SERIES, KK, KV, VV