



Wright Technologies Inc.

Broadband Frequency Operation

PERFORMANCE DATA

RoHS COMPLIANT

ASL20B-4017

Serial # 0048

FEATURES

- * Operating Frequency: 1.0 - 20.0 GHz
- * P-1dB: 17.00 dBm Min
- * Small Signal Gain: 40.00 Min dB
- * Gain Flatness: +/- 2.00 dB Full Band
- * High Output IP3: 27.0 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
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
1.000	45.40	19.77	1.76	1.07	2.15
5.750	45.05	19.63	1.40	1.29	1.76
10.500	45.12	20.84	1.47	1.44	1.98
15.250	44.82	19.74	1.39	1.14	2.08
20.000	43.90	17.30	1.76	1.56	2.58
Min	43.60	17.30	---	---	---
Max	45.40	---	1.79	1.76	2.58
Spec	40.00 Min	17.00 Min	2.00 Max	2.50 Max	3.00 Max

$$\text{Bias @ +12.0V, IT} = \frac{330}{300} \text{ mA} = 1.1 \text{ mA Typ}$$

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

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Wright Technologies Inc.

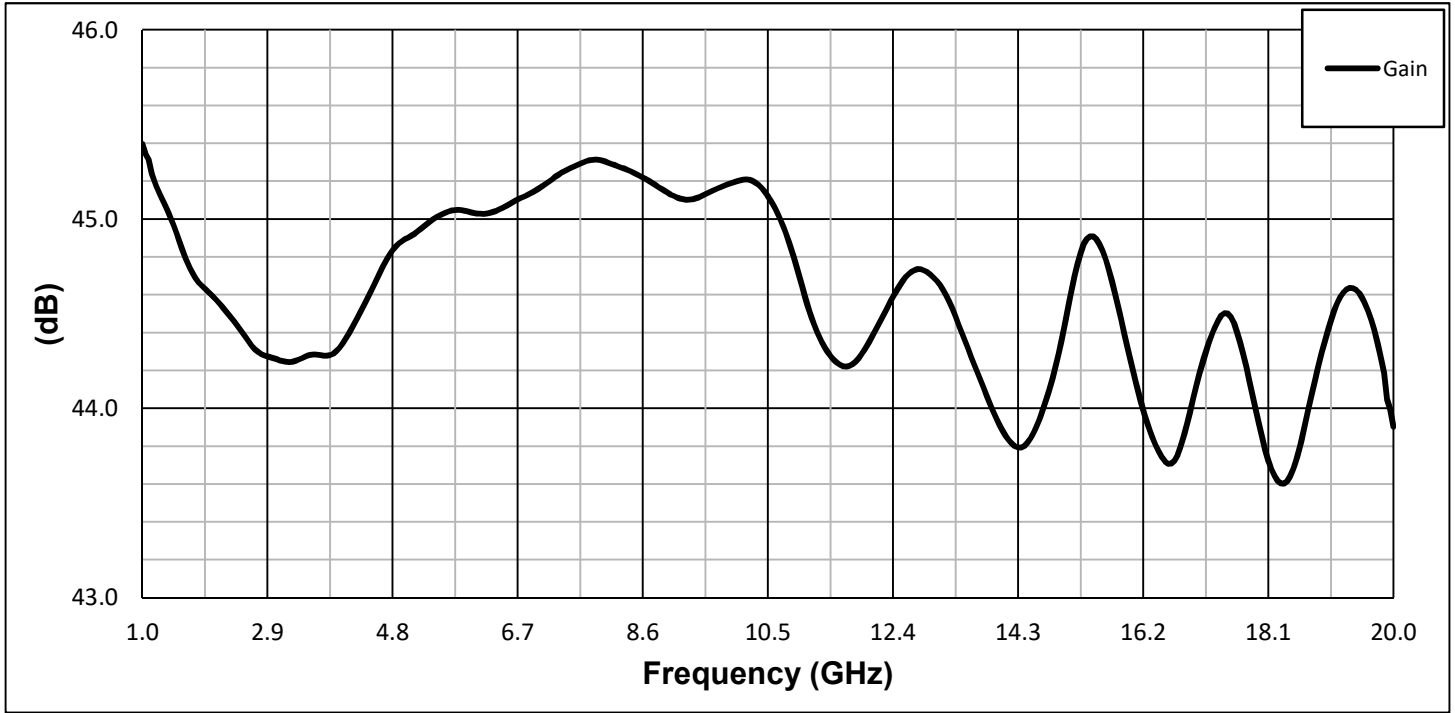
Broadband Frequency Operation

DATA PLOTS

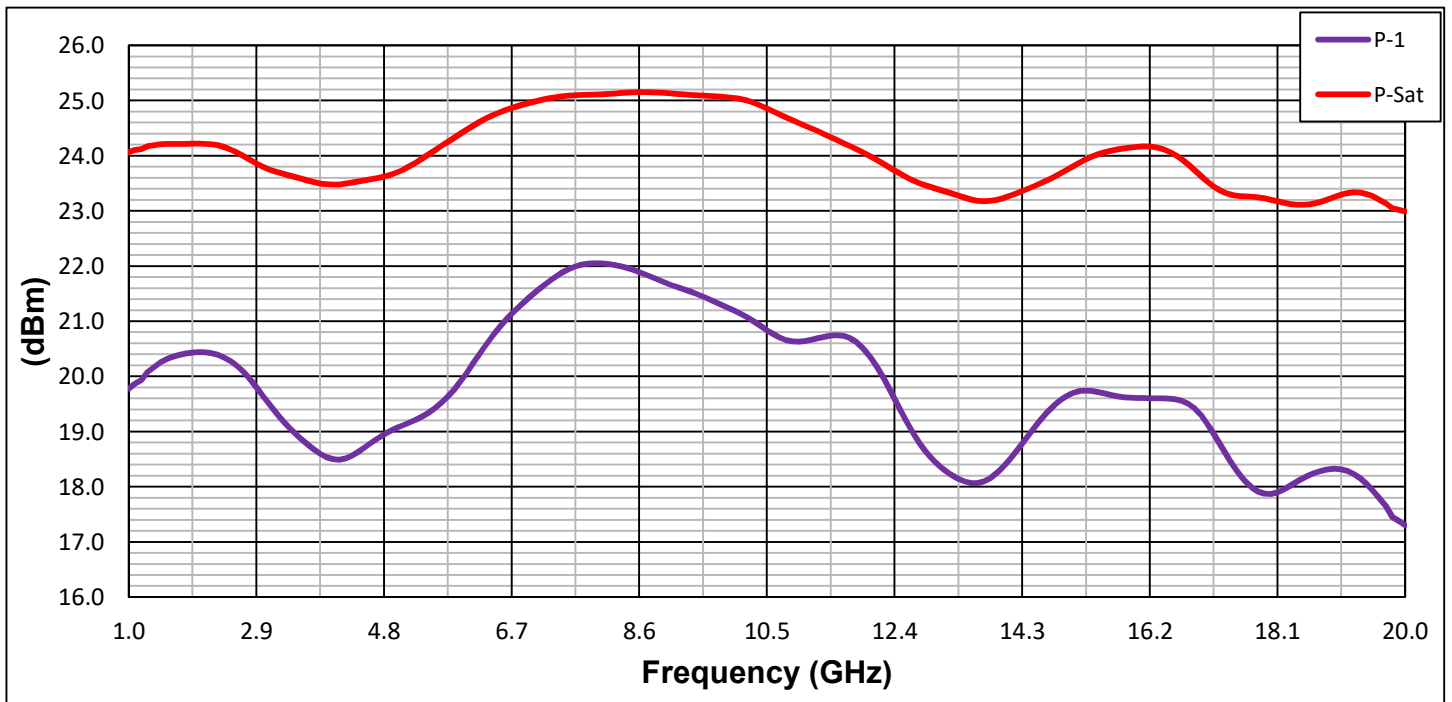
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Gain



Power





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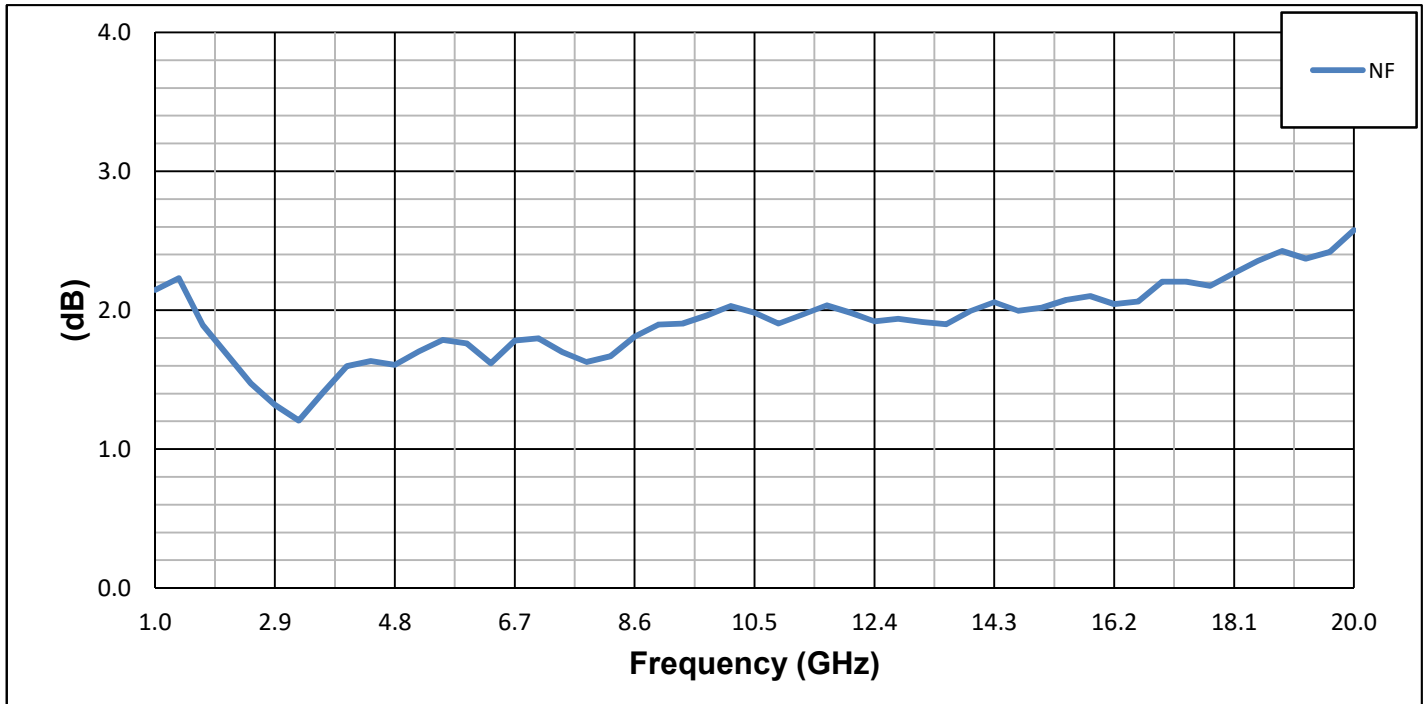
DATA PLOTS

RoHS COMPLIANT

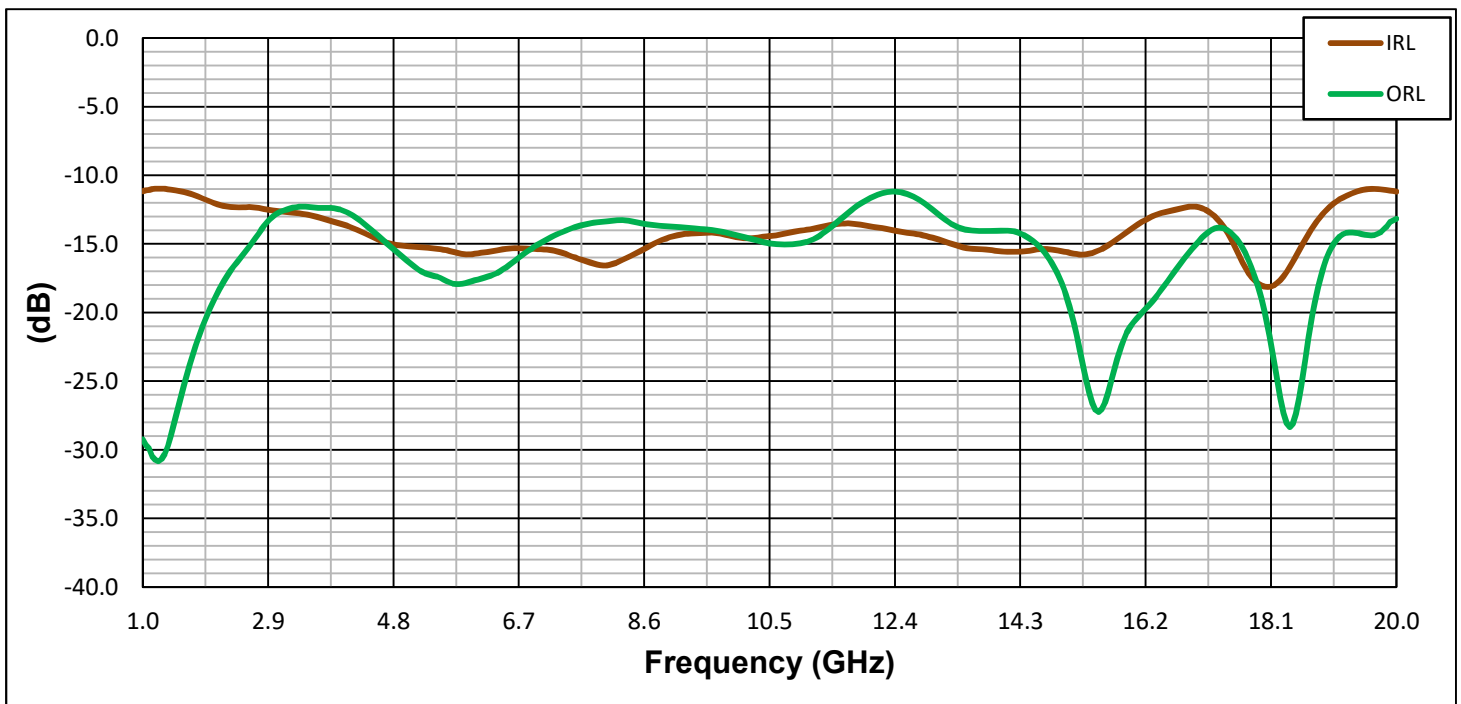
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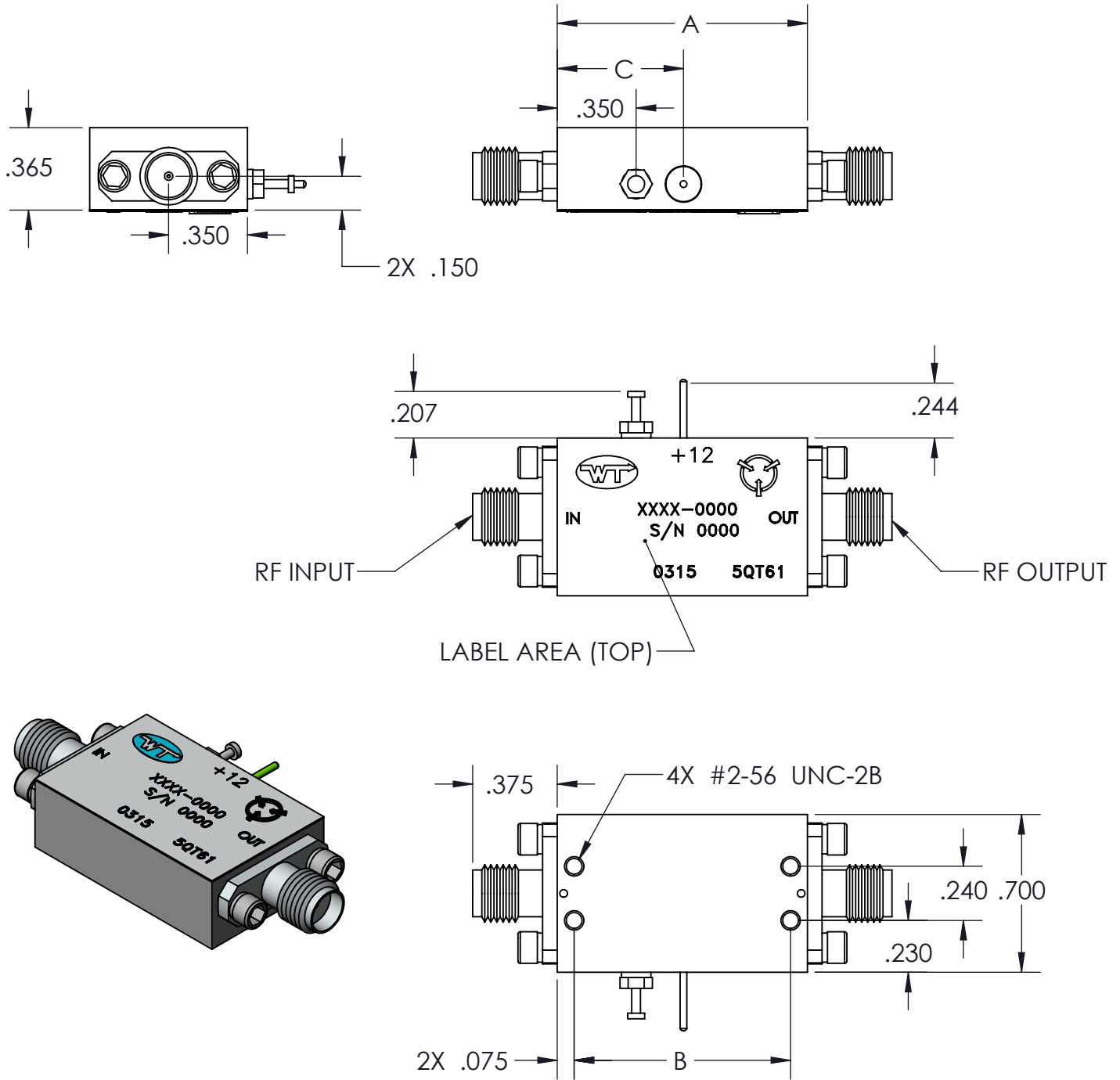
Noise



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
 $\pm .010$ 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