



# Wright Technologies Inc.

Broadband Frequency Operation

## TECHNICAL DATA SHEET

RoHS COMPLIANT

ASG-20B2010

0005

### FEATURES

- \* 0.1GHz - 20GHz Frequency Operation
- \* P-1dB: +10 dBm minimum
- \* Small Signal Gain: 20-30 dB minimum
- \* Gain Flatness: +/- 2.0 dB full band
- \* High Output IP3: 20 dBm typ.
- \* Noise Figure: 4.8 dB maximum
- \* 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
0.100	28.0	13.8	1.52	1.34	4.8
5.075	28.3	14.3	1.20	1.10	2.7
10.05	28.7	13.3	1.14	1.37	2.7
15.025	27.6	13.3	1.31	1.12	3.2
20.0	28.2	12.2	1.45	1.43	3.8
Min.	27.2	12.2	---	---	---
Max.	29.0	---	1.80	1.66	4.8
Spec.	20.0-30.0	10.0 Min	2.20 Max	2.20 Max	4.8 Max

Bias @ +12.0 V, IT =  $\frac{130}{190}$  mA  
mA TYP

All Measurements Taken at 25°C Ambient Room

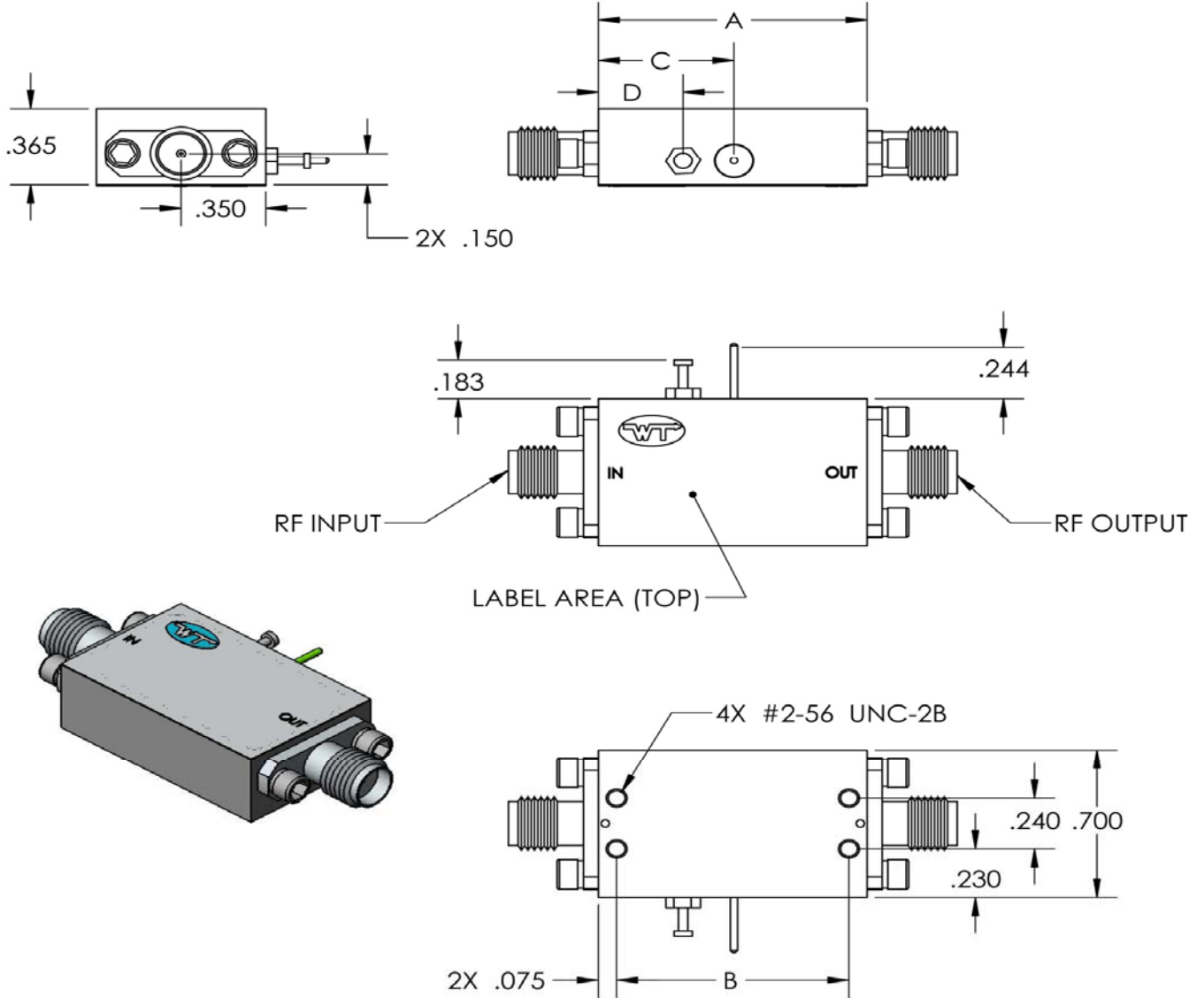
Wright Technologies Inc.  
1352 Blue Oaks Blvd Suite 140  
Roseville, CA 95678

### Contact Us

Phone: (916) 773-4424  
Fax: (916) 760-2770  
E-mail: [sales@wrighttec.com](mailto:sales@wrighttec.com)

### ASG-20B2010

### 3KK TYPE CASE



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) RF CONNECTORS ARE K FEMALE
- 3) INTERPRET DRAWING PER ASME  
 Y14.5M-1994

TYPE	A	B	C	D
3	.910	.760	.560	.350
4	1.110	.960	.560	.350
6	1.510	1.360	.960	.750
8	1.910	1.760	1.360	1.150

**Wright Technologies Inc.**

TITLE

**WT KK, VV SERIES**



# Wright Technologies Inc.

## Broadband Frequency Operation

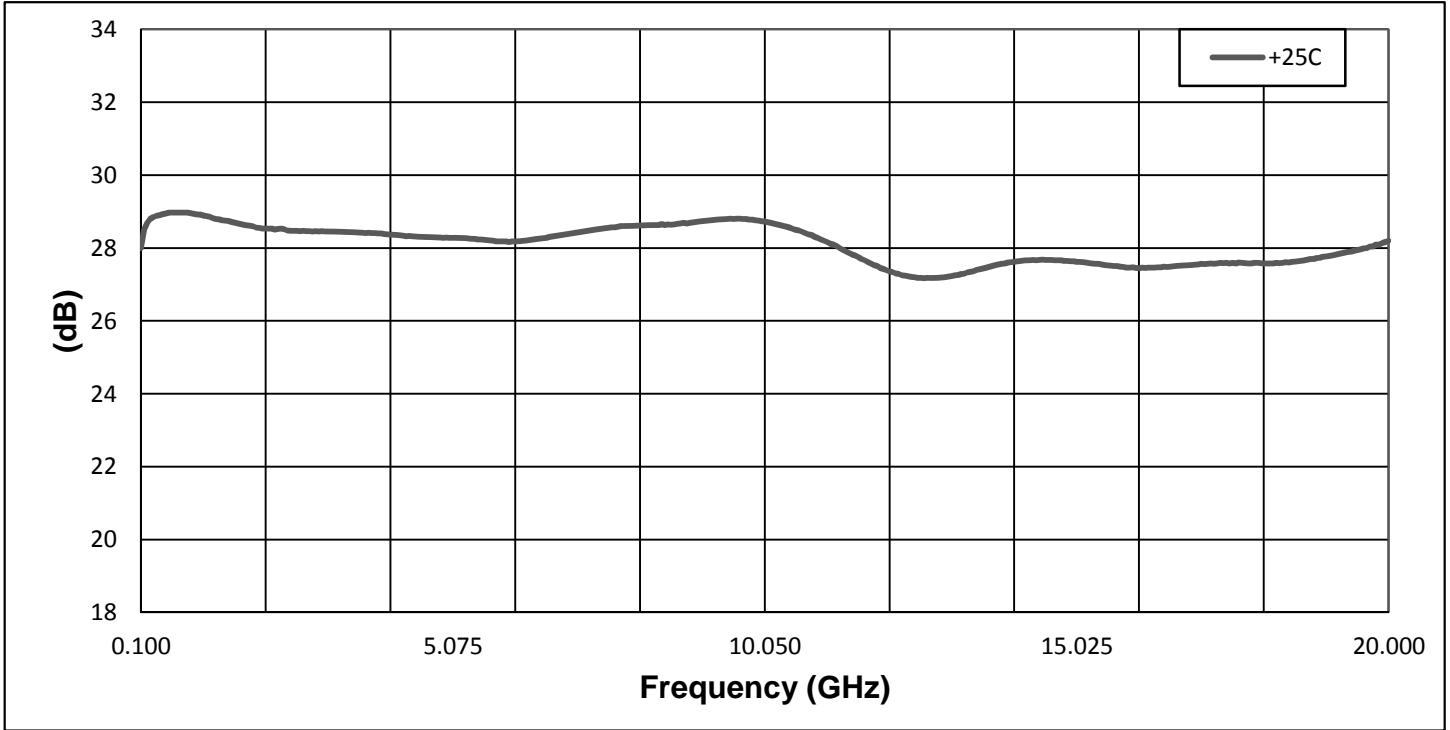
DATA PLOTS

RoHS COMPLIANT

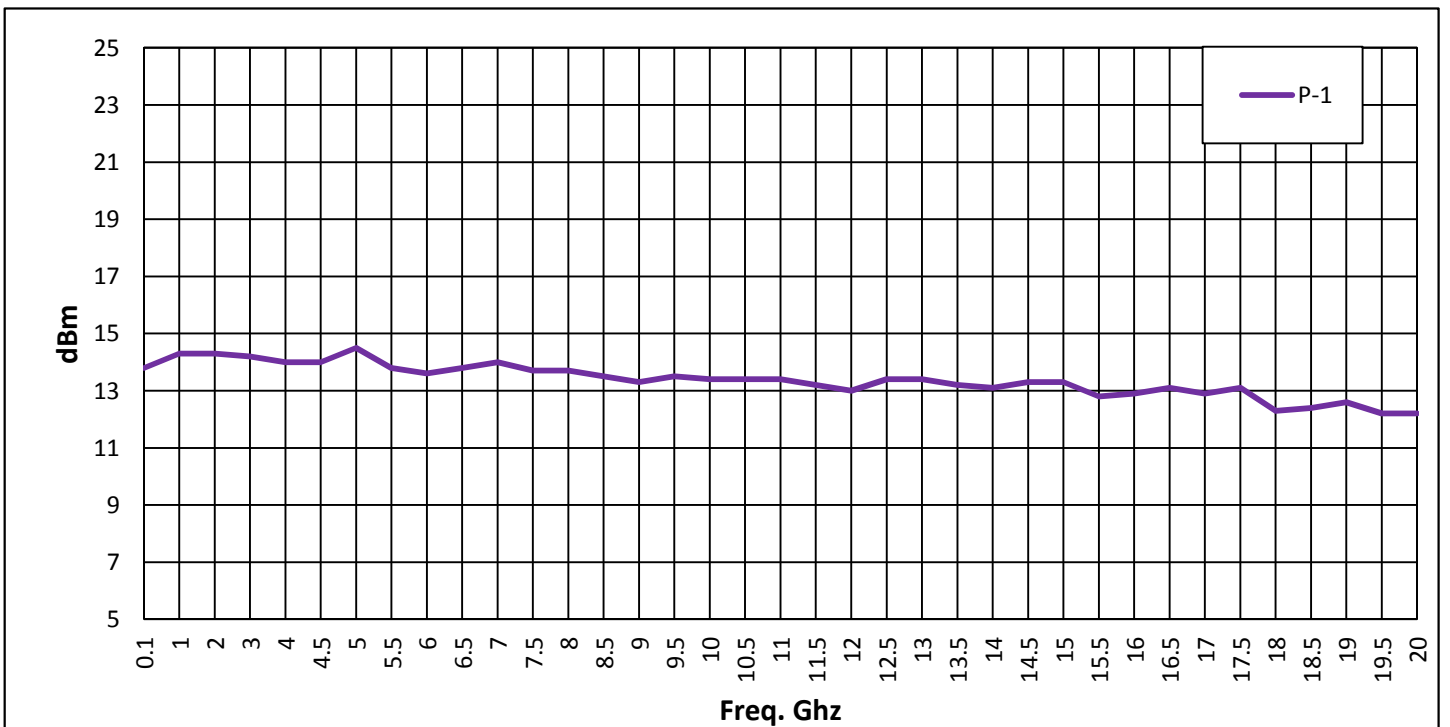
ASG-20B2010

0005

### Gain



### Power dBm





# Wright Technologies Inc.

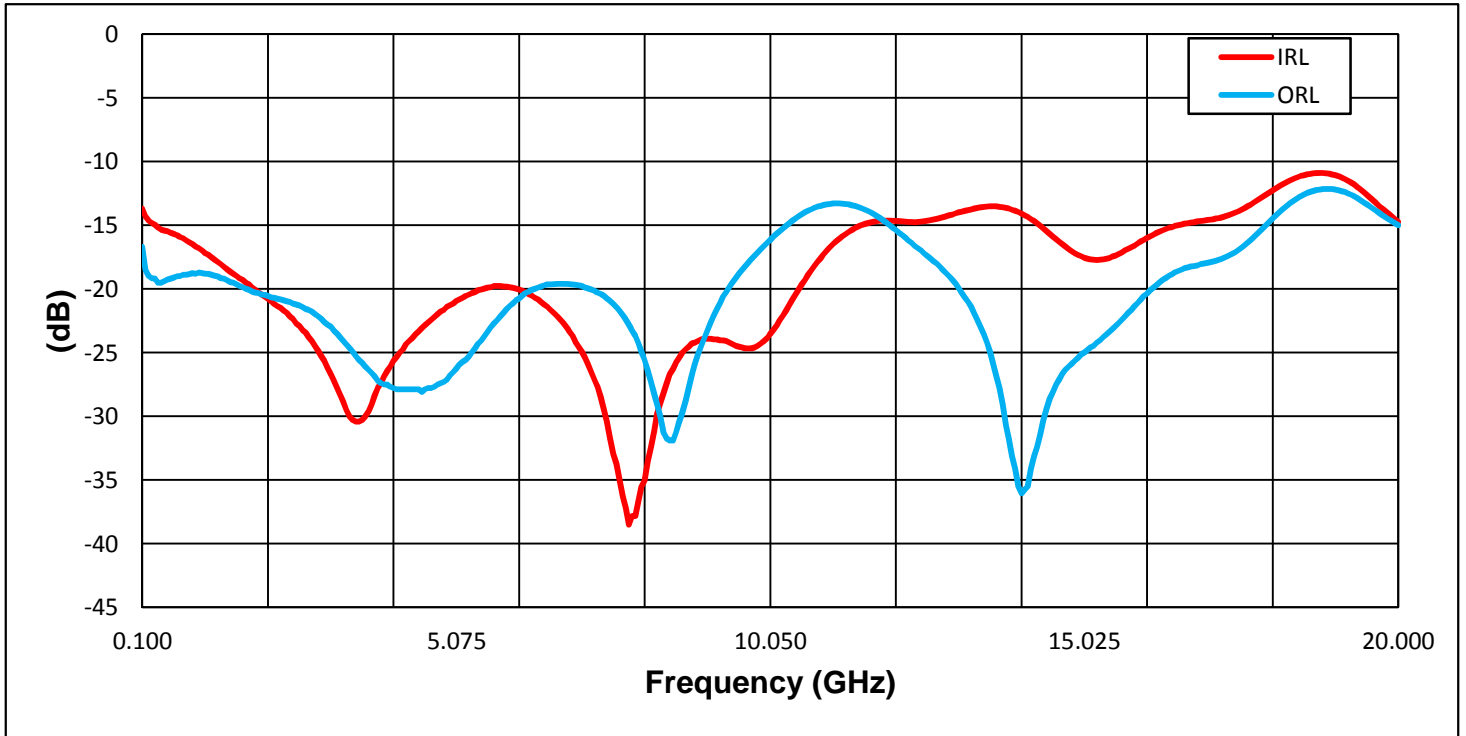
Broadband Frequency Operation

DATA PLOTS

RoHS COMPLIANT

ASG-20B2010  
0005

## Return Loss



## Noise (0.1GHz-20.0 GHz)

