



# Wright Technologies Inc.

## Broadband Frequency Operation

<b>TECHNICAL DATA SHEET</b>
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**RoHS COMPLIANT**

<b>ASL18-B4015</b>
<b>0002</b>

**FEATURES**

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>* 2GHz - 18GHz Frequency Operation</li> <li>* P-1dB: +15.0 dBm minimum</li> <li>* Small Signal Gain: 40.0-48.0 dB</li> <li>* Gain Flatness: +/- 1.75 dB full band</li> <li>* High Output IP3: 25.0 dBm typ.</li> <li>* Noise Figure: 3.0 dB maximum</li> </ul> | <ul style="list-style-type: none"> <li>* 50 Ohm Input and Output Matched</li> <li>* 0 to +50 °C Operating Temperature</li> <li>* Unconditionally Stable</li> <li>* Single DC Bias Supply</li> <li>* Built-in DC Voltage regulation</li> <li>* Small Size and Weight, Yet Robust</li> </ul> |
|---|--|

**APPLICATIONS**

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>Laboratory Applications</li> <li>R&amp;D Lab Use</li> <li>Radar Systems</li> <li>Electronic Warfare</li> <li>Telecom Infrastructure</li> </ul> | <ul style="list-style-type: none"> <li>Test Instrumentation</li> <li>Military and Space</li> <li>Communications Systems</li> <li>Satellite Communications</li> <li>Wireless Communications</li> </ul> | <ul style="list-style-type: none"> <li>Microwave Radio Systems</li> <li>Power Amplifier</li> <li>General Purpose Amplifier</li> <li>RF Front Ends</li> <li>Fiber Optic Interface</li> </ul> |
|---|---|---|

Freq. In GHz	Gain dB	P-1 dBm	Input VSWR	Output VSWR	Noise dB
2.0	44.7	18.1	1.50	1.20	1.7
6.00	43.7	17.7	1.64	1.38	2.1
10.0	43.8	17.5	1.97	1.14	2.4
14.00	44.2	16.2	1.70	1.76	2.6
18.0	44.8	15.6	2.13	1.90	2.8
Min.	43.5	15.5	---	---	---
Max.	44.9	---	2.13	2.00	2.9
Spec.	40.0-48.0	15.0 Min	2.20 Max	2.20 Max	3.0 Max

Bias @ +12.0 V, I<sub>T</sub> =  $\frac{290}{300}$  mA  
mA TYP

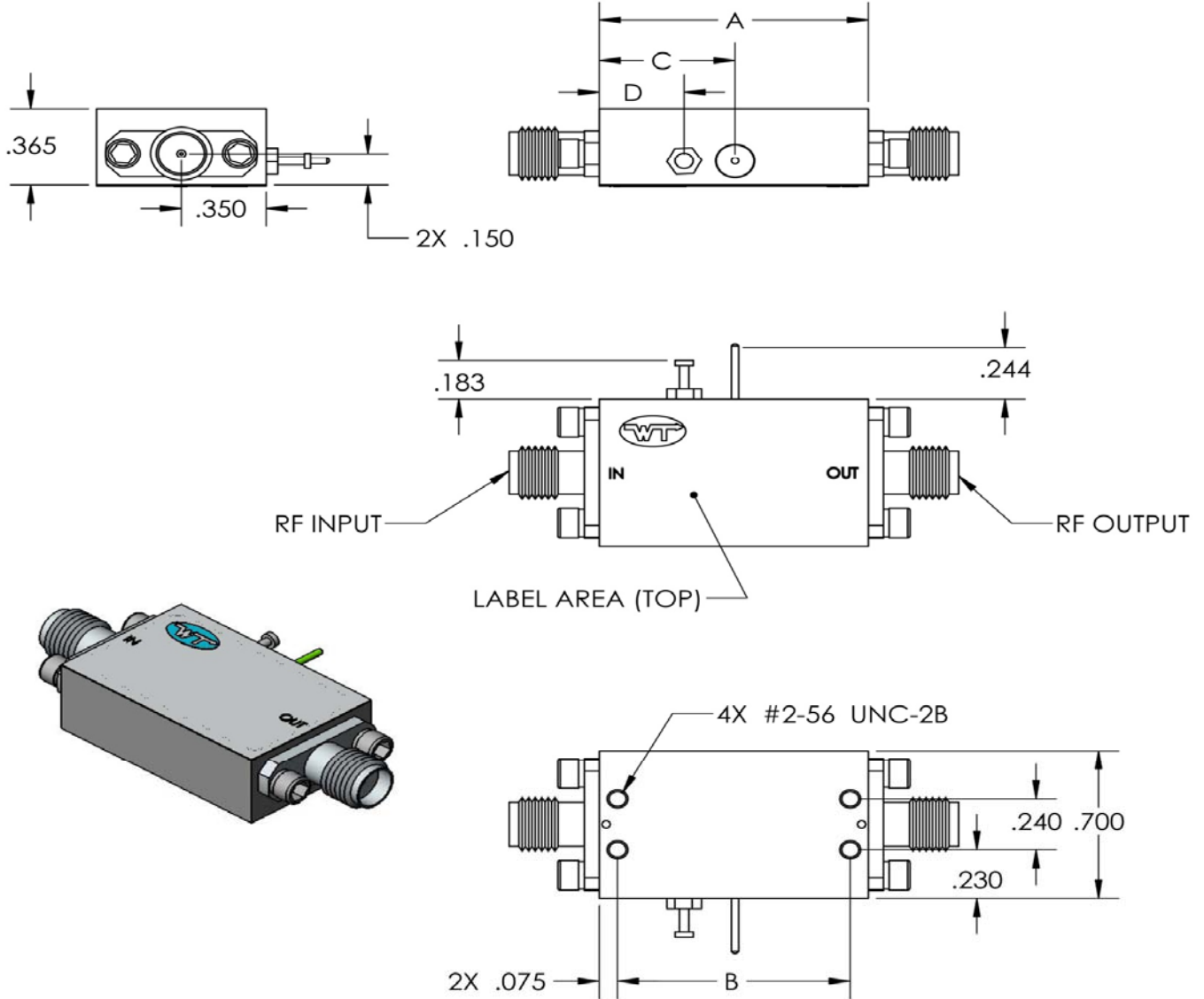
All Measurements Taken at 25°C Ambient Room

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### ASL18-B4015

### 6KK SERIES 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

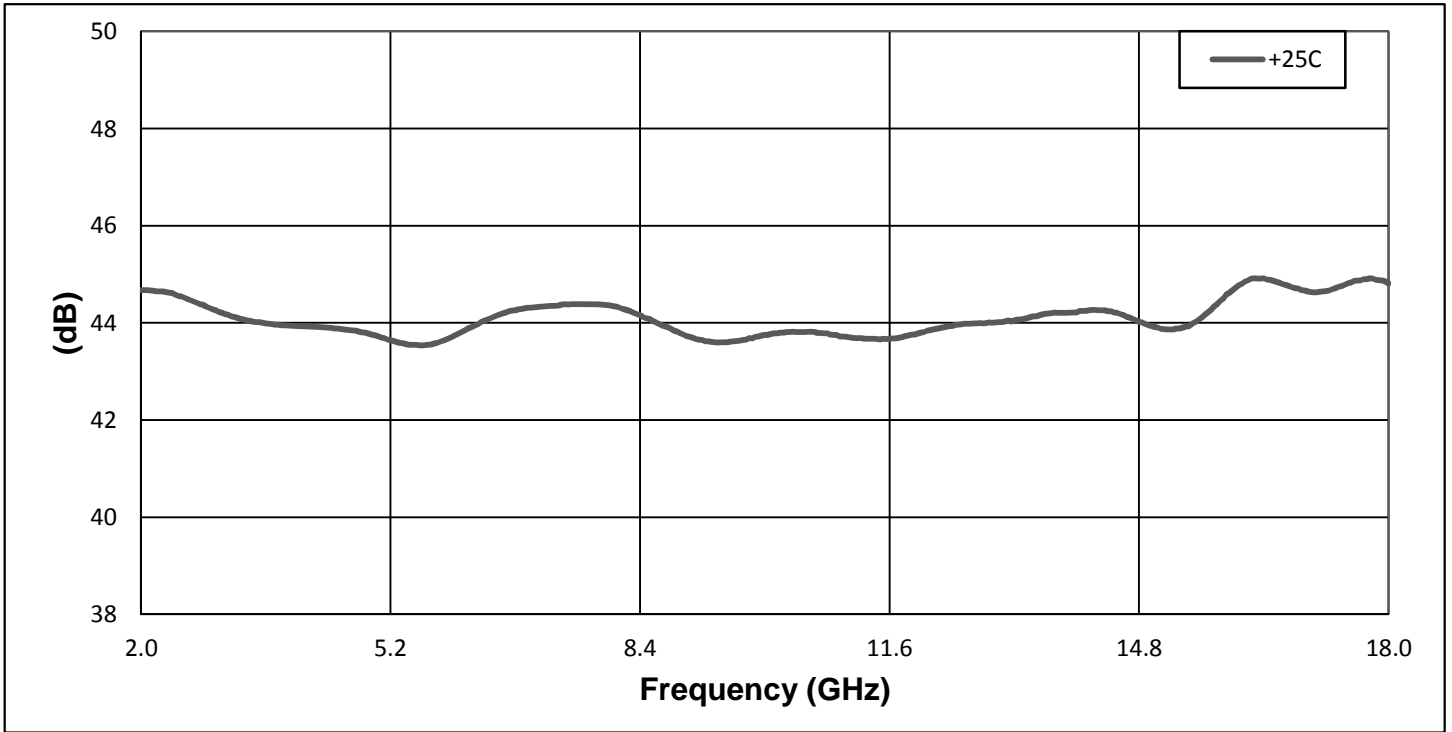


**DATA PLOTS**

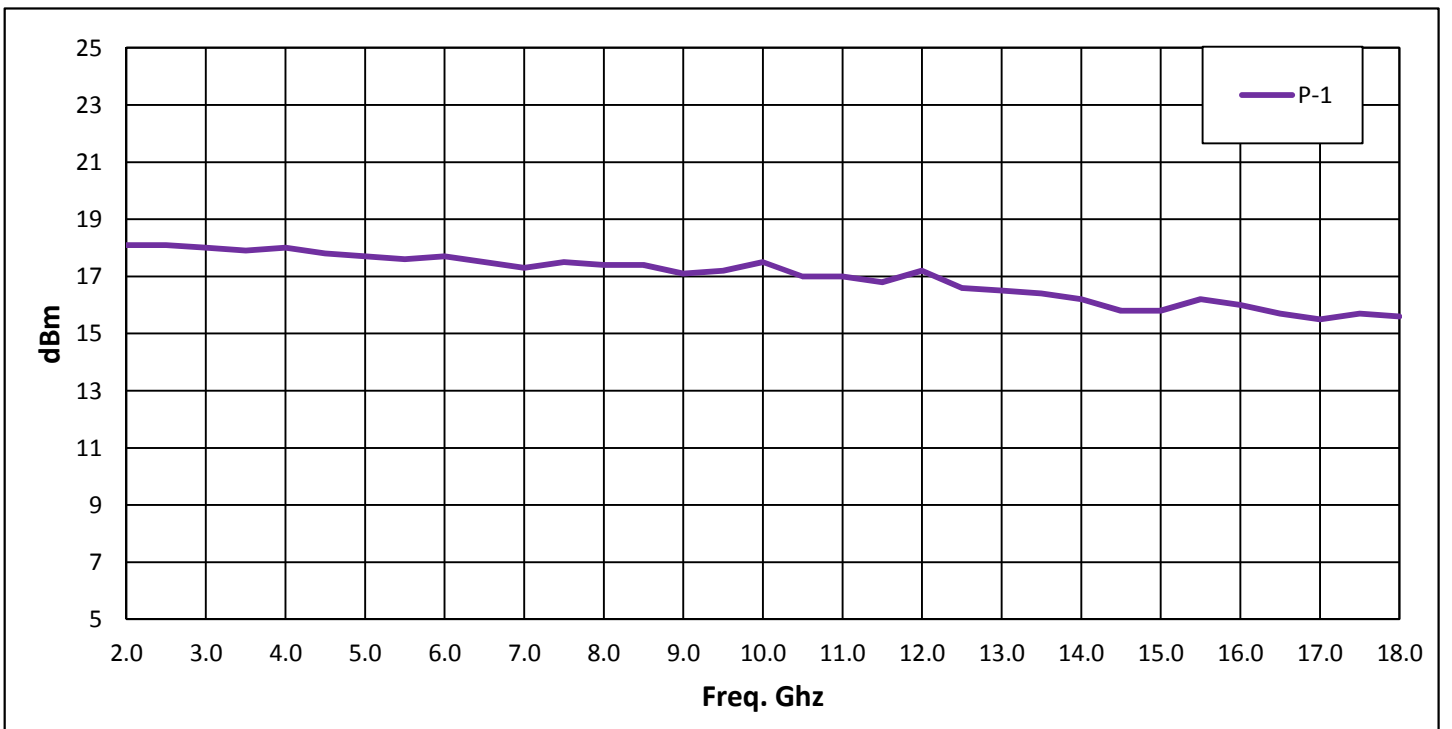
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Gain



Power dBm





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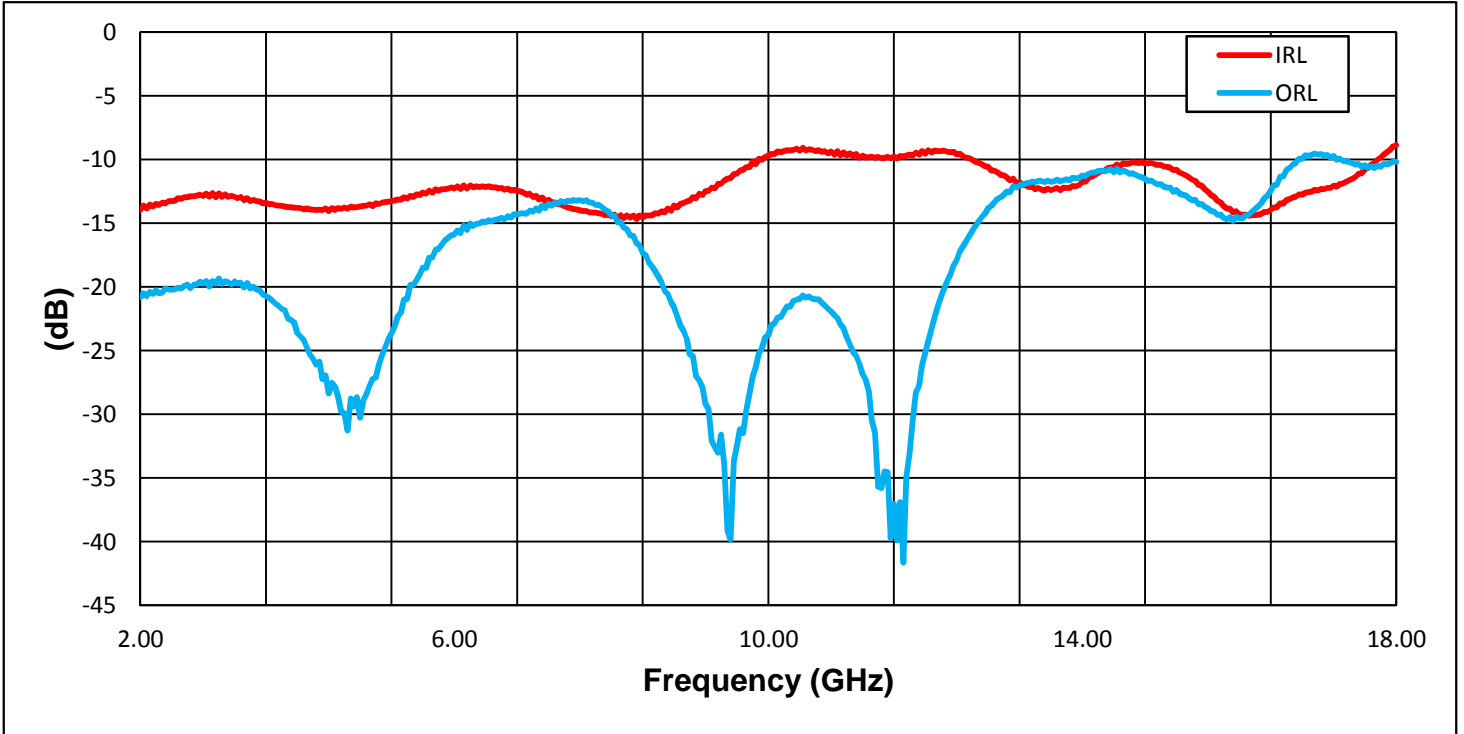
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## Return Loss



## Noise (2.0-18.0 GHz)

