



Wright Technologies Inc.

Broadband Frequency Operation

TECHNICAL DATA SHEET

RoHS COMPLIANT

SSP40-B3028

0001

FEATURES

- * 18-40 Ghz Frequency Operation
- * Psat: +28 dBm minimum
- * Small Signal Gain: 30-45 dB minimum
- * Gain Flatness: +/- 3.0 dB full band
- * High Output IP3: 37 dBm typ.
- * Noise Figure: 8.0 dB typ.
- * 50 Ohm Input and Output Matched
- * +25 °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

HEAT SINK MUST BE USED WHILE AMPLIFIER IS BIASED

Freq. In GHz	Gain dB	Psat dBm	Input VSWR	Output VSWR	Noise dB
18.0	38.0	28.8	1.67	1.62	7.2
23.5	41.6	30.9	1.81	1.30	6.4
29.0	38.4	30.5	1.66	1.19	5.9
34.5	37.1	30.7	1.42	1.20	5.8
40.0	39.1	29.0	1.40	1.17	6.1
Min.	36.6	28.8	---	---	---
Max.	42.2	---	2.48	1.98	7.2
Spec.	30-45	28 Min	2.50 Max	2.50 Max	8 Typ.

Bias @ +15.0 V, IT = $\frac{2280}{2750}$ mA
FULL BIAS MUST BE APPLIED AT TURN ON $\frac{2280}{2750}$ mA TYP

All Measurements Taken at 25°C Ambient Room

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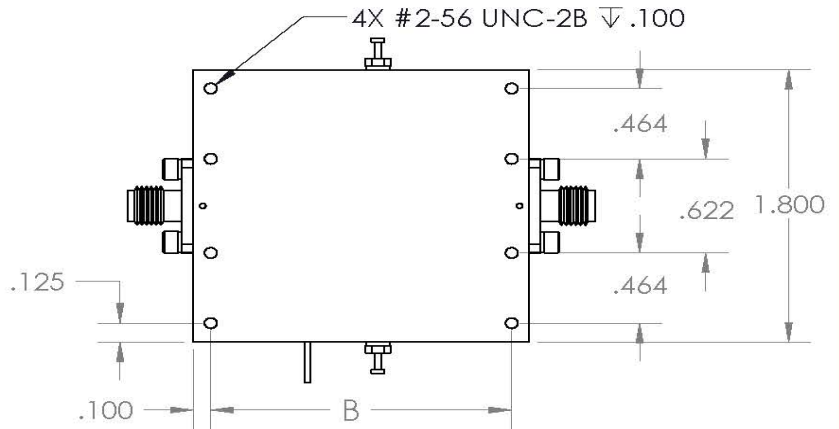
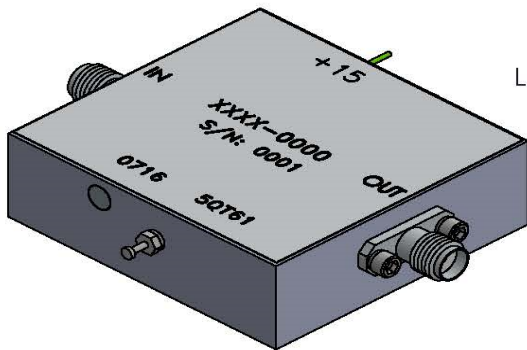
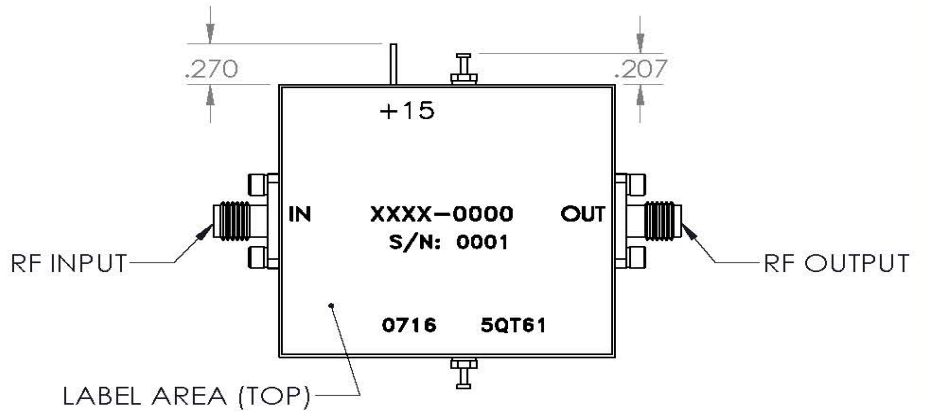
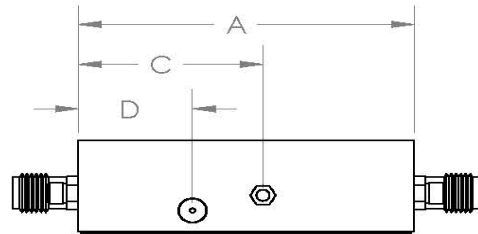
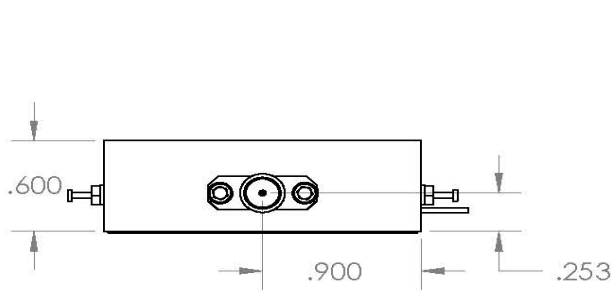
Contact Us

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SSP40-B3028

4 PKDR TYPE CASE

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) RF MALE CONNECTORS ARE
 AVAILABLE UPON REQUEST
 3) INTERPRET DRAWING PER ASME
 Y14.5M-1994

TYPE	A	B	C	D
3	1.710	1.510	.805	.350
4	1.910	1.710	1.050	.650
6	2.110	1.910	1.250	.750

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TITLE

PKD-R14 SERIES



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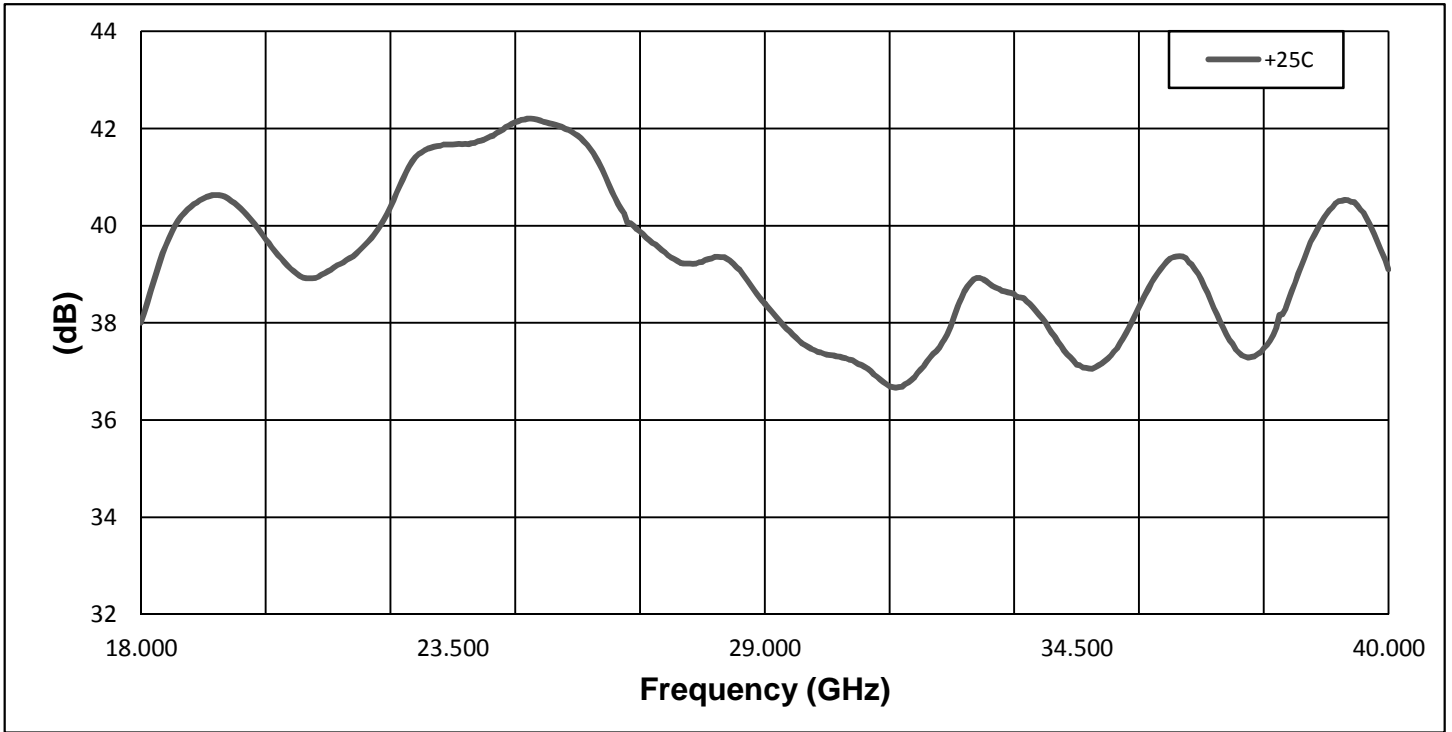
Broadband Frequency Operation

DATA PLOTS

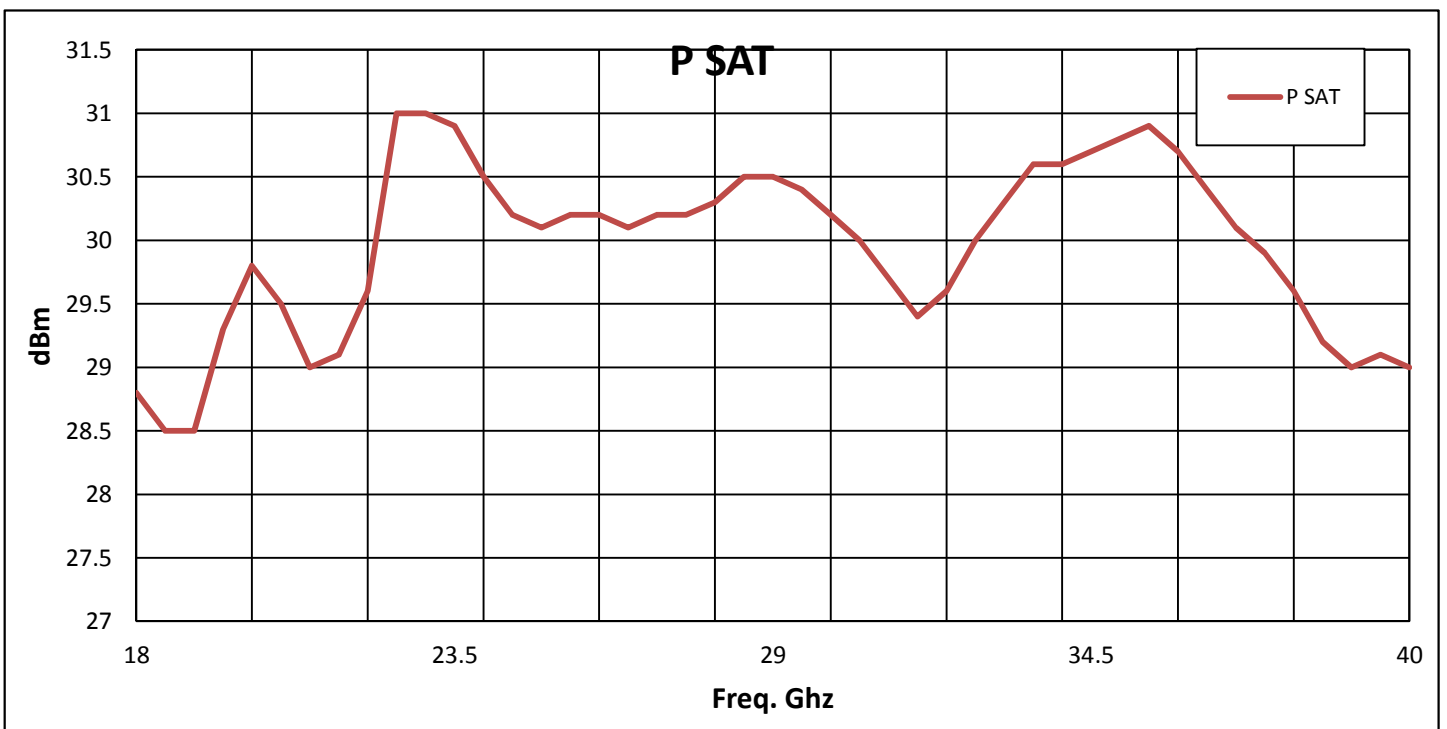
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Gain



Power dBm





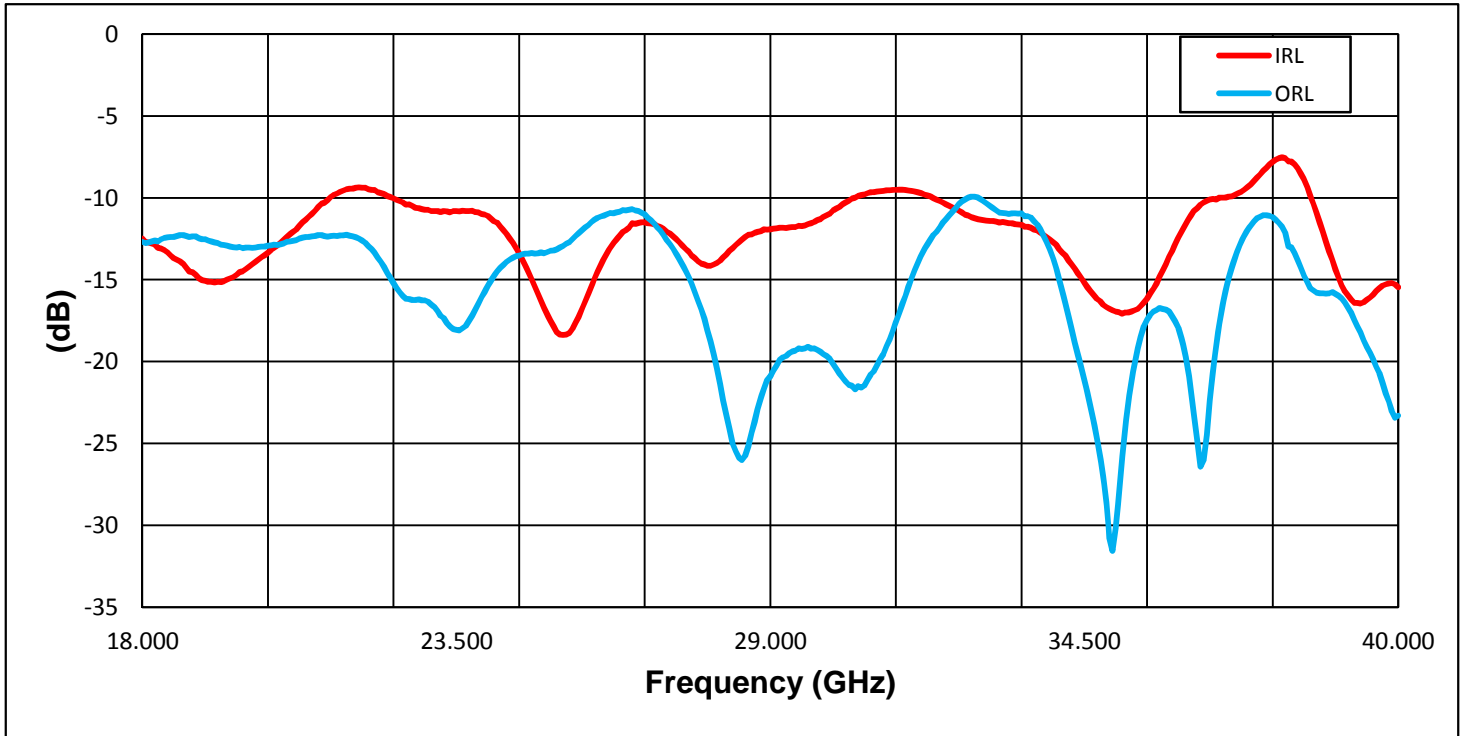
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Broadband Frequency Operation

DATA PLOTS

RoHS COMPLIANT
Return Loss

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Noise (18-40 GHz)

