1352 Blue Oaks Blvd Suite 140
Roseville CA 95678 (916) 773-4424

Wright Technologies Inc.

Broadband Frequency Operation

TECHNICAL DATA SHEET | **RoHS COMPLIANT** | **ASX40B-217** s/n 0025

FEATURES

* 10.0 - 20.0 GHz Input Frequency
* 20.0 - 40.0 GHz Output Frequency
* P In dBm: +10.0 min./ +16 dBm max.
* P Out dBm: +17 min./+21.0 typ.
* Multiplication Factor: X 2
* Harmonic: 20.0 dBc min./ 30.0 dBc typ.
* 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	Freq. Out GHz	Harmonics dBc	Power In dBm	Power Out dBm
10.0	20.0	24.5	+10.0	20.7
12.5	25.0	29.2	↓	21.1
15.0	30.0	46.0	↓	22.2
17.5	35.0	28.7	↓	21.7
20.0	40.0	21.0	↓	19.2
	Min	21.0	+10.0	19.2
	Max		+16.0	
	Spec	20.0 Min.	+10.0 Min	17.0 Min

Bias @ +12.0 V, IT = 360 mA
500 mA TYP

All Measurements Taken at 25°C Ambient Room

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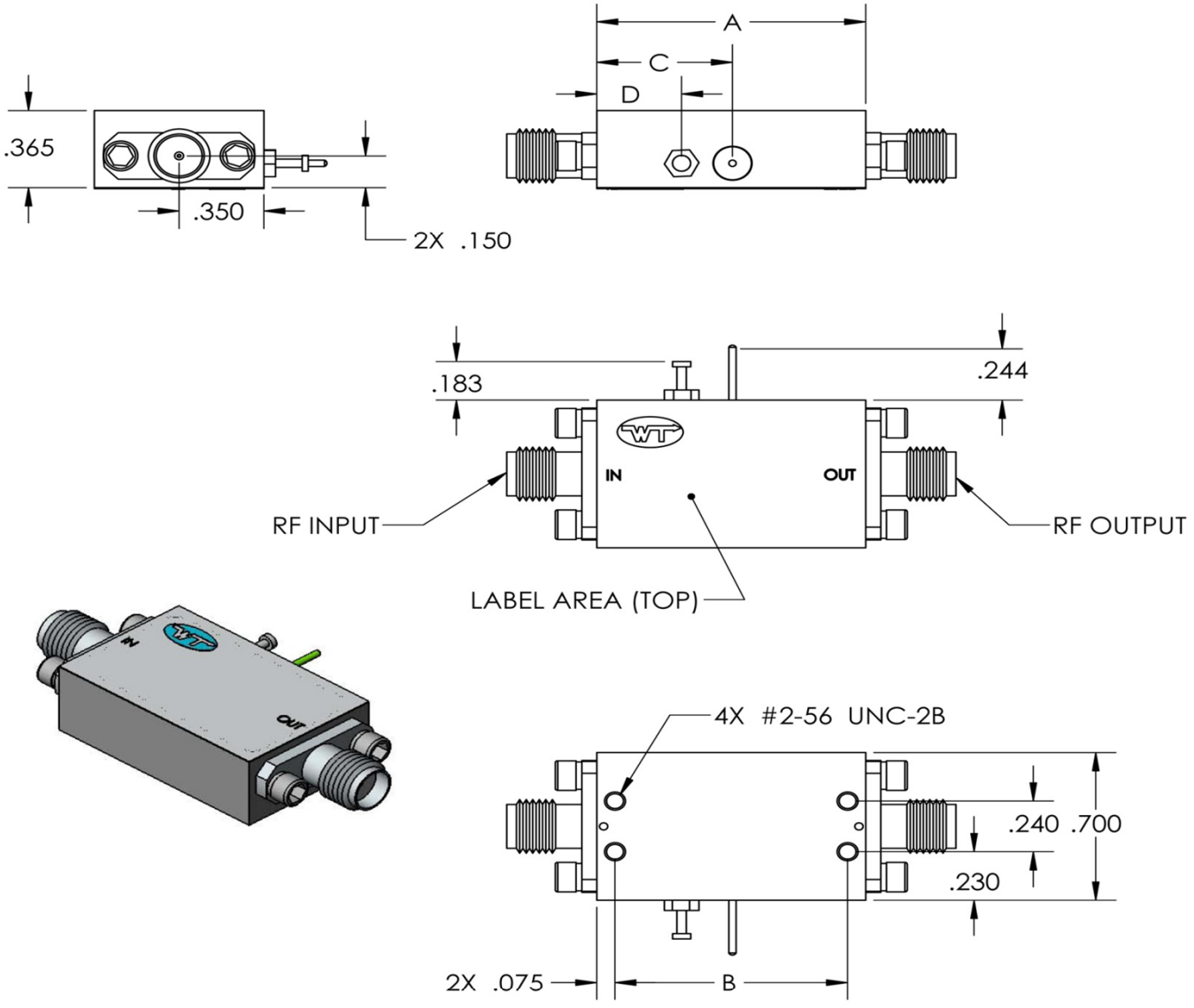
6 KK CASE



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) 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

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TITLE

WT KK, VV SERIES

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DATA PLOTS

RoHS COMPLIANT

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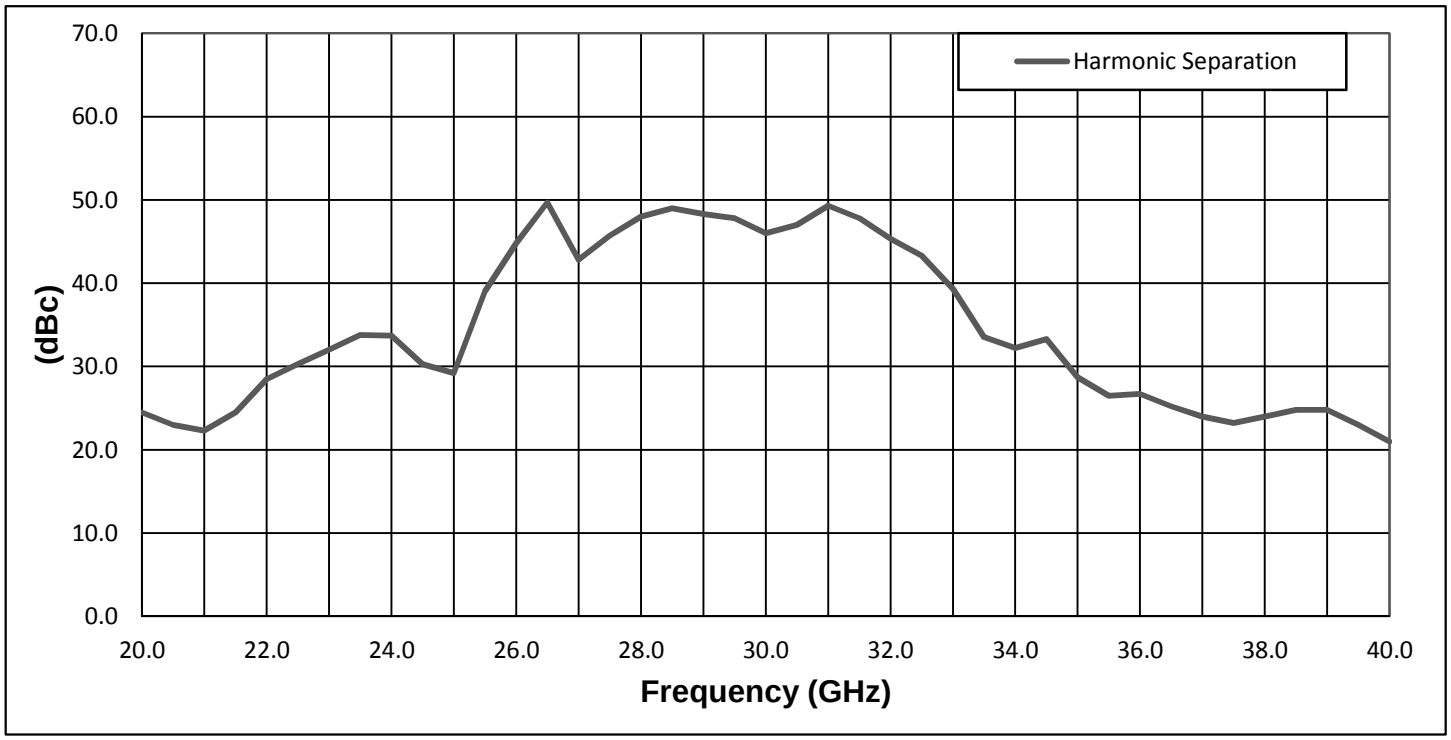
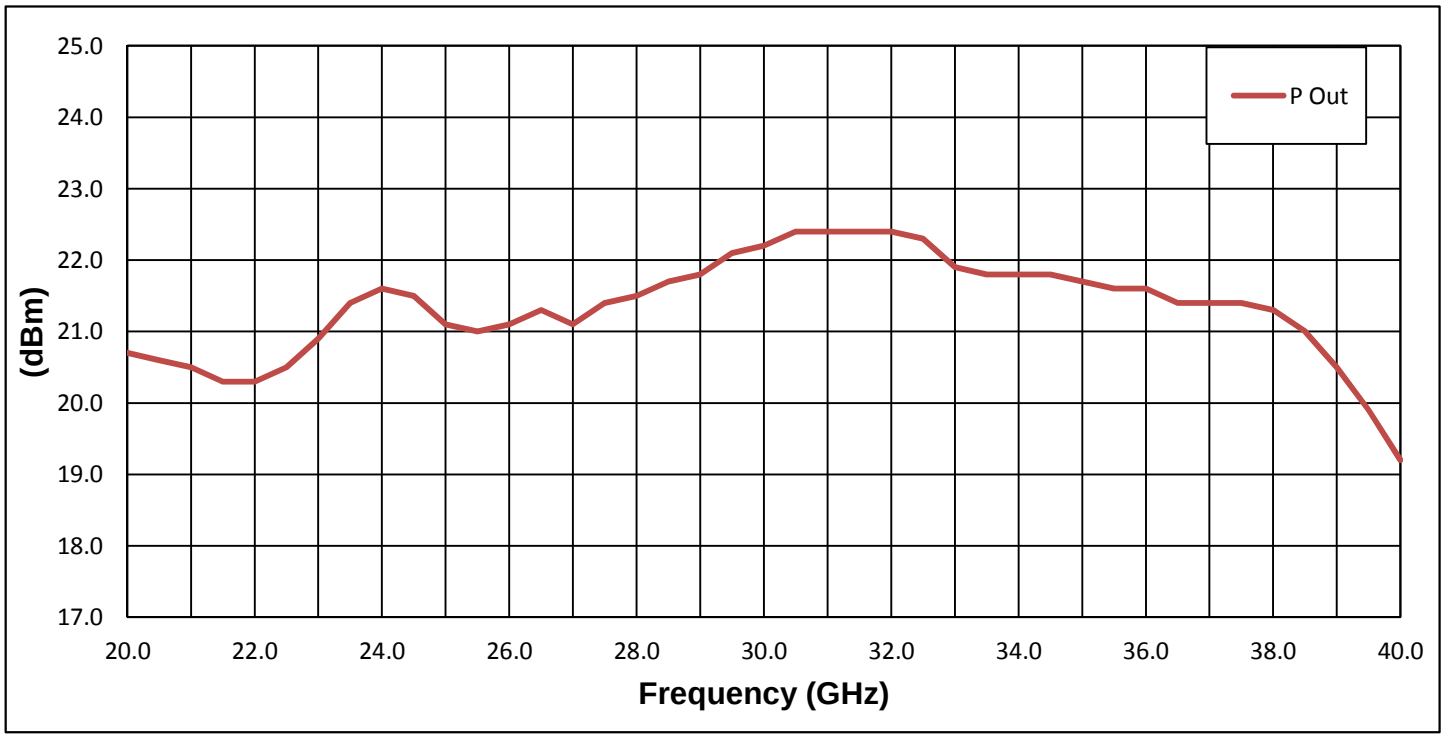
s/n 0025

Harmonics (dBc)



Power dBm