

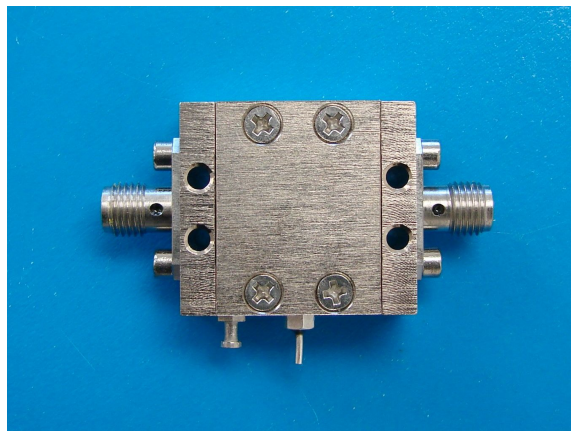
WNA Series

400MHz – 6GHz Low Noise Amplifier

Features

- Frequency Range: 400MHz-6GHz
- Gain: 40dB
- P_{1dB}: +20dBm
- IP3: +30dBm
- Noise Figure: 2dB
- DC Power: +12V @ 160mA
- Internally Voltage Regulated
- RF Connector: SMA-Female

Photo



Description

WNA-130 is a high performance Microwave Low Noise Amplifier, with standard frequency range of 400MHz to 6GHz.

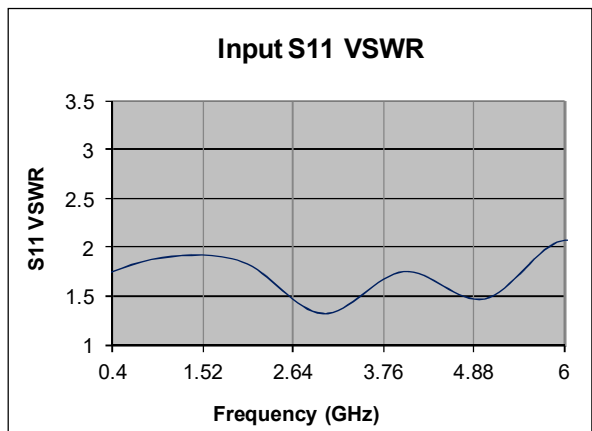
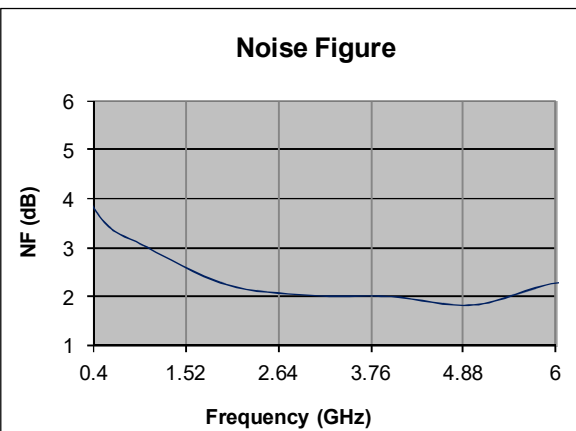
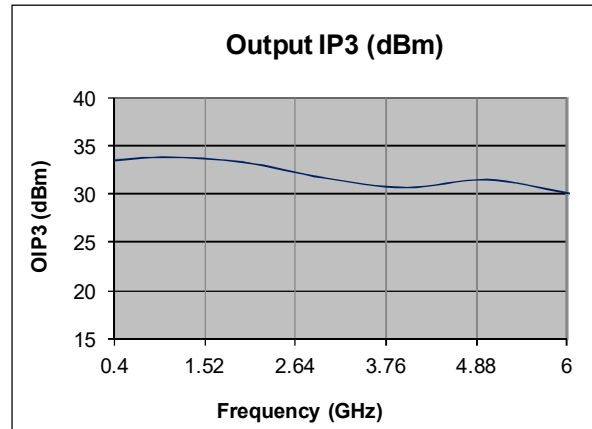
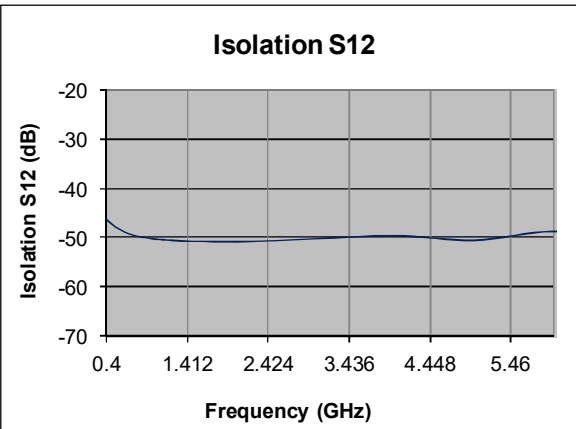
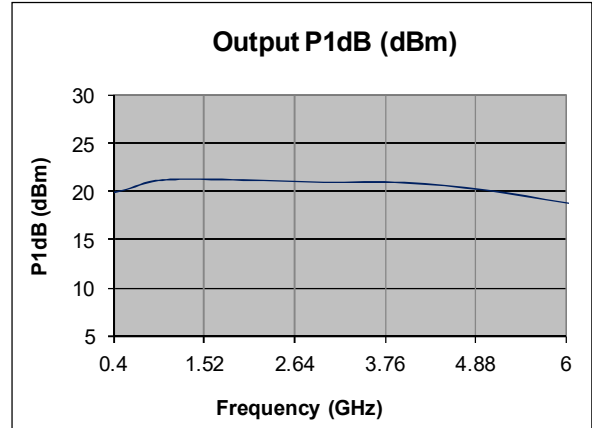
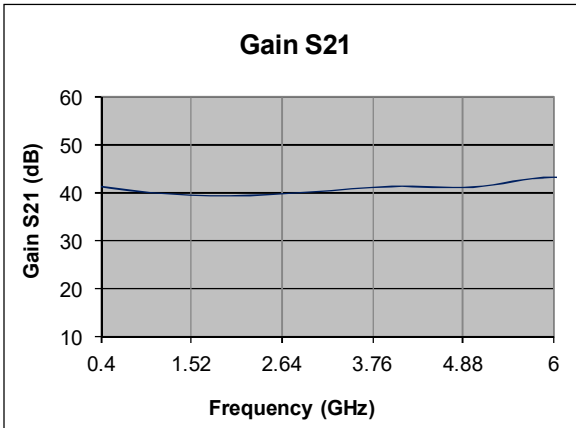
Electrical Specifications @+25°C, Z_{in}=Z_{out}= 50 Ω, V_{supply} = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	0.4		6
Gain (S21) f = 400MHz	dB		40.5	
f = 3GHz	dB		40.0	
f = 6GHz	dB		42.5	
Gain Flatness	dB		± 1.0	
Output Power P _{1dB}	dBm		+20	
Output Third Order Intercept IP3	dBm		+30	
Noise Figure @ 3GHz	dB		2.0	2.5
Reverse Isolation (S12) @ 3GHz	dB		-50	
VSWR-Input (S11)			1.8:1	
VSWR-Output (S22)			2.0:1	
DC Power Supply - voltage	V	9	12	15
DC Power Supply - current	mA		160	
Operating Temperature	°C	-40		+85
Size (RF/DC feedthru's excluded)	Inch	1.00 (L) x 0.90 (W) x 0.45 (H)		
Weight	Oz	0.6 (17 grams)		

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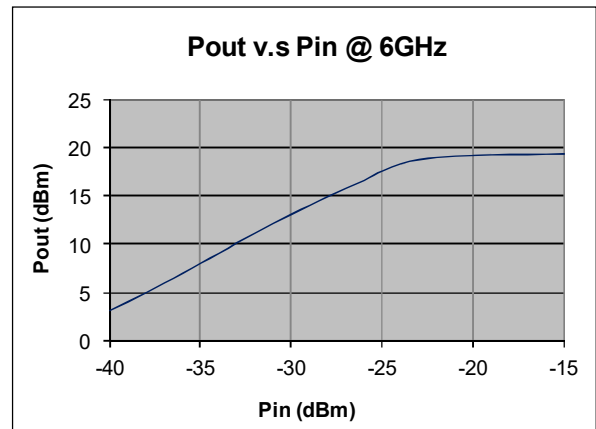
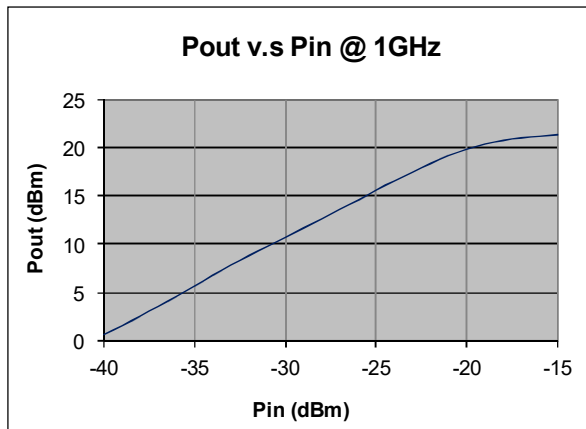
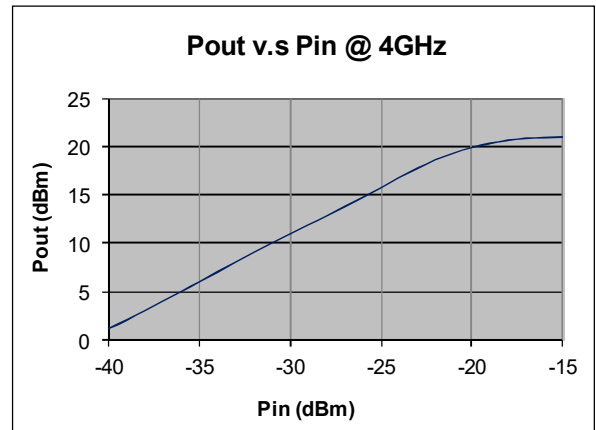
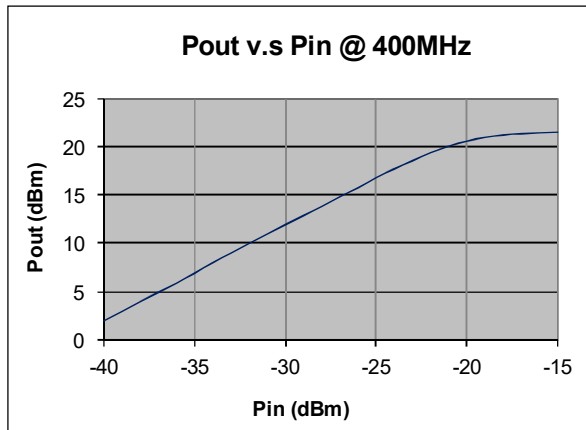
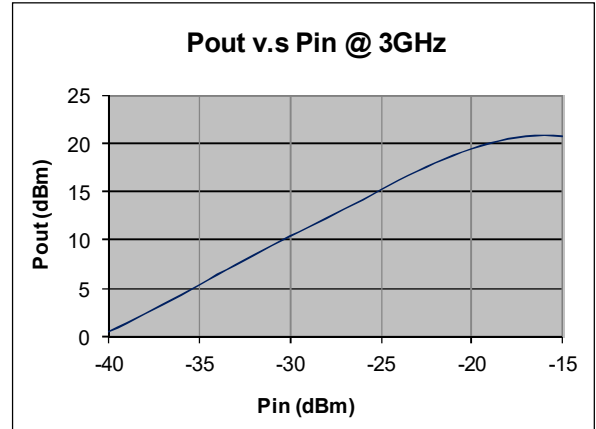
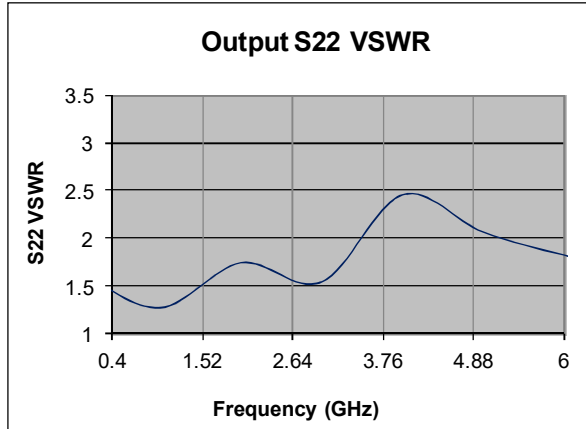
Typical Performance @+25 °C



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Typical Performance @+25 °C



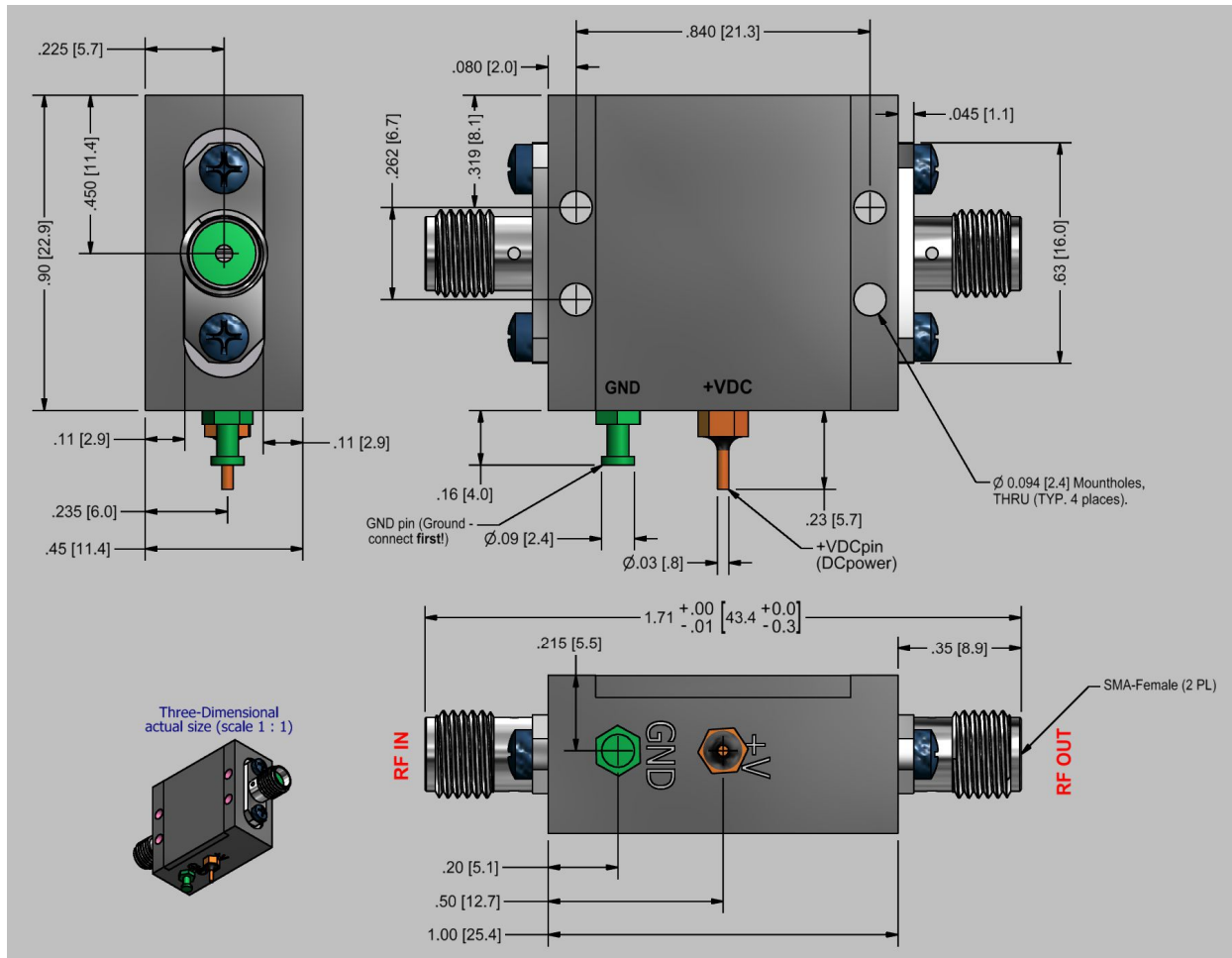
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	-7dBm
Supply Voltage	+16V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline



WARNING: MUST USE HEAT SINK IF CASE TEMPERATURE EXCEEDS 50 °C