

WNA Series

4 – 8GHz Low Noise Amplifier

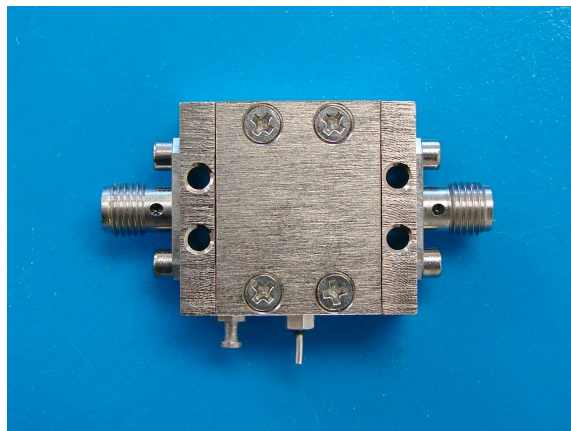
Features

- Frequency Range: 4-8GHz
- Gain: 20dB
- P_{1dB}: +18dBm
- IP3: +28dBm
- Noise Figure: 1.5dB
- DC Power: +12V @ 85mA
- Internally Voltage Regulated
- RF Connector: SMA-Female

Description

WNA-200 is a high performance Microwave Low Noise Amplifier, with standard frequency range of 4GHz to 8GHz.

Photo



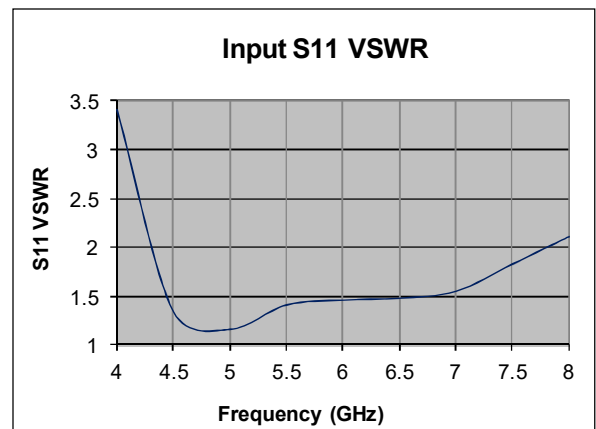
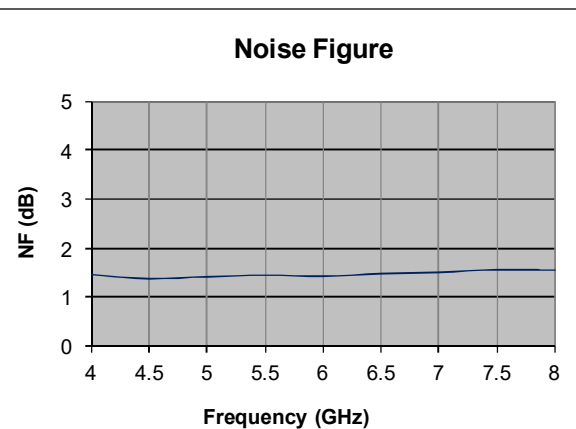
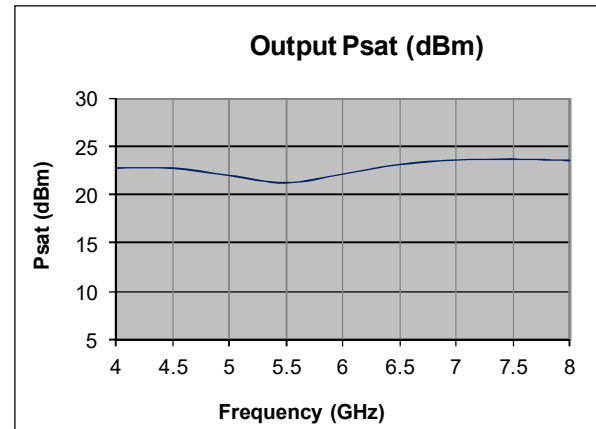
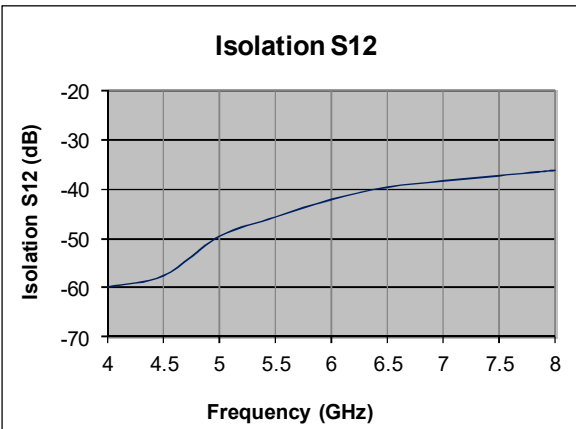
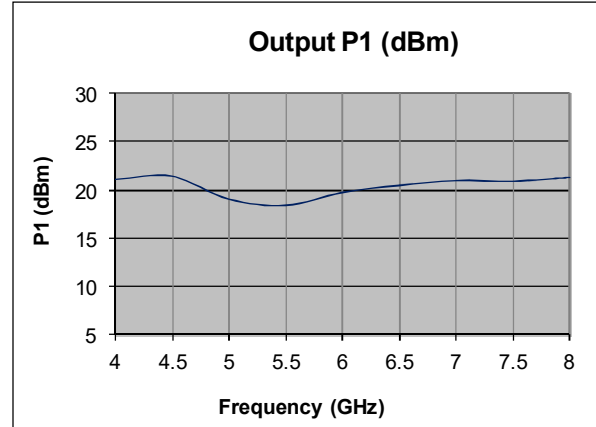
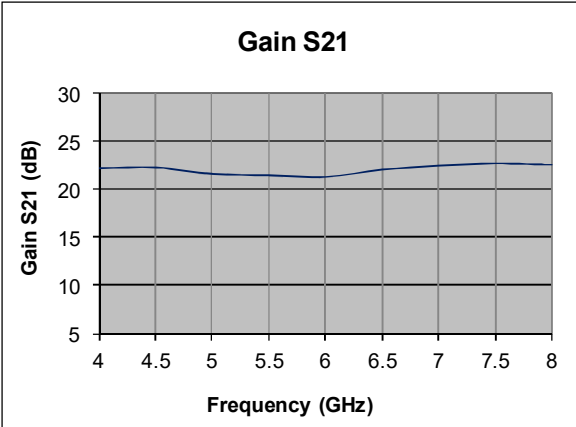
Electrical Specifications @+25°C, Z_{in}=Z_{out}=50 Ω, V_{supply} = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	4		8
Gain (S ₂₁) f = 4GHz	dB		22.5	
f = 6GHz	dB		21.0	
f = 8GHz	dB		22.5	
Gain Flatness	dB		± 0.8	
Output Power P _{1dB}	dBm		+18	
Saturated Output Power P _{Sat}	dBm		+22	
Output Third Order Intercept IP3	dBm		+28	
Noise Figure @ 6GHz	dB		1.5	
Reverse Isolation (S ₁₂) @ 6GHz	dB		-35	
VSWR-Input (S ₁₁)			1.5:1	
VSWR-Output (S ₂₂)			1.6:1	
DC Power Supply - voltage	V		12	15
DC Power Supply - current	mA		85	
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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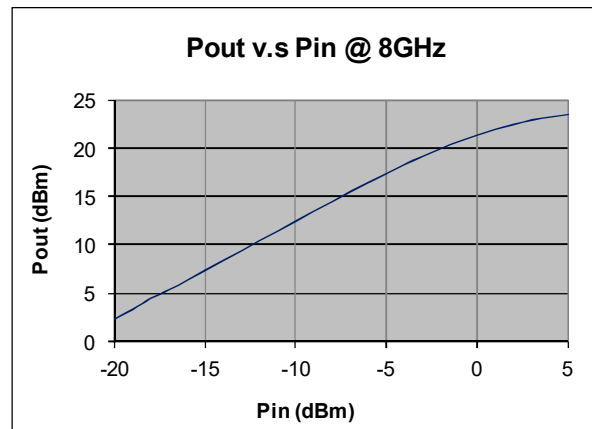
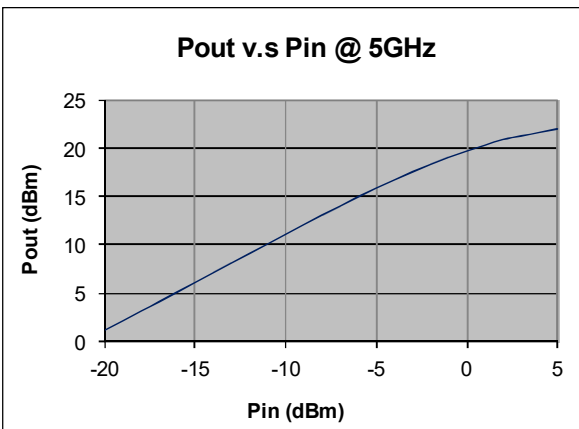
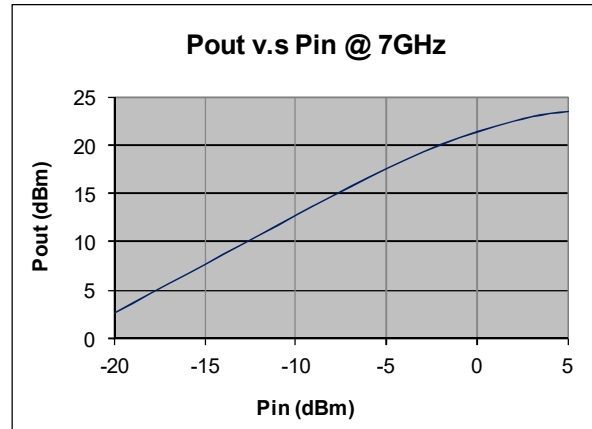
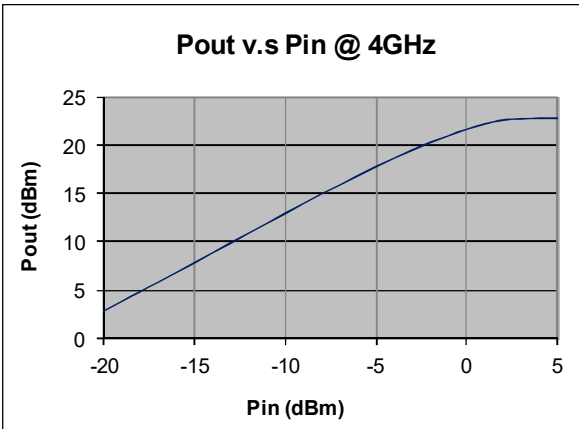
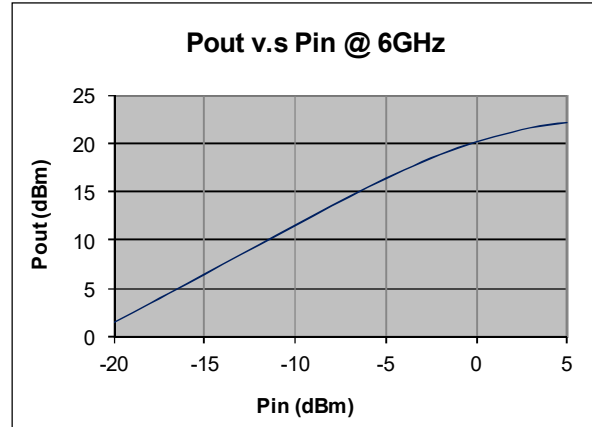
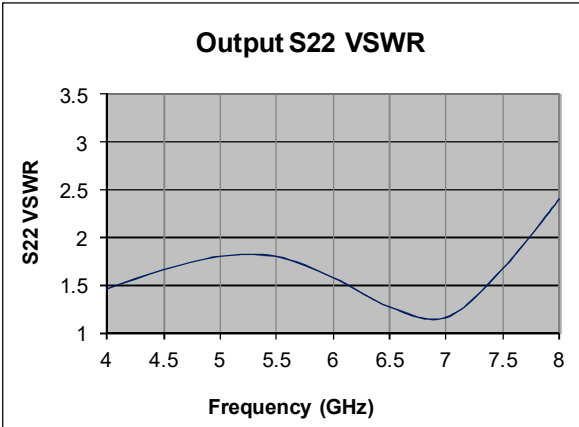
Typical Performance @+25 °C



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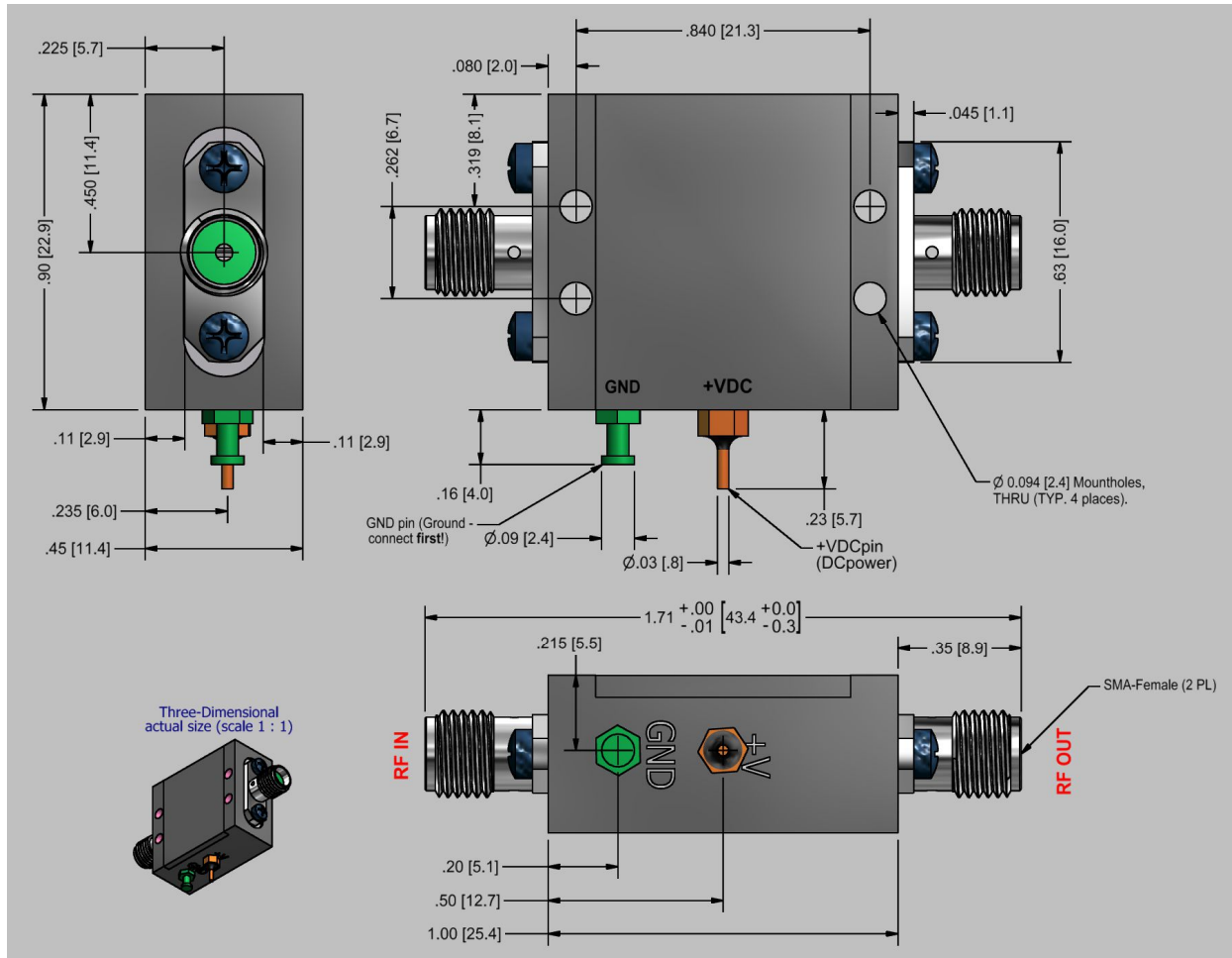
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+27dBm
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