

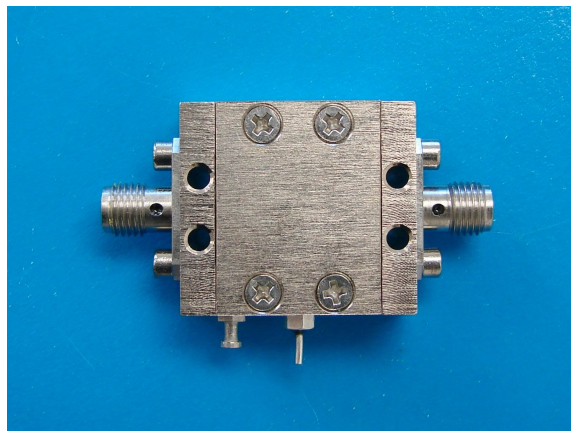
## WNA Series

## 2 – 6GHz Low Noise Amplifier

### Features

- Frequency Range: 2-6GHz
- Gain: 30dB
- P<sub>1dB</sub>: +18dBm
- IP3: +30dBm
- Noise Figure: 2.5dB
- DC Power: +12V @ 150mA
- Internally Voltage Regulated
- RF Connector: SMA-Female

### Photo



### Description

WNA-150 is a high performance Microwave Low Noise Amplifier, with standard frequency range of 2GHz to 6GHz.

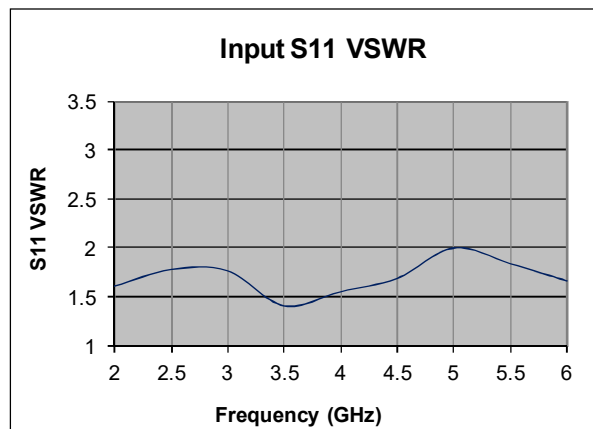
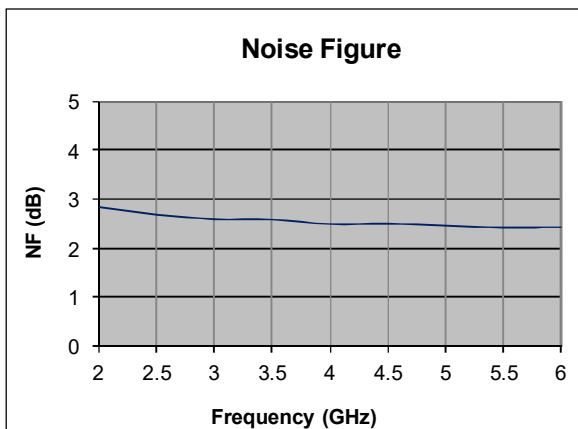
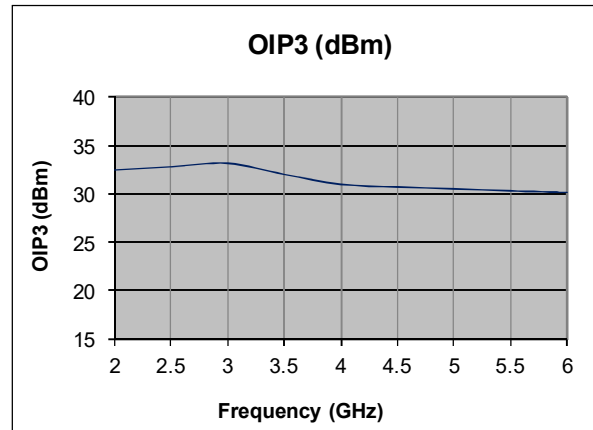
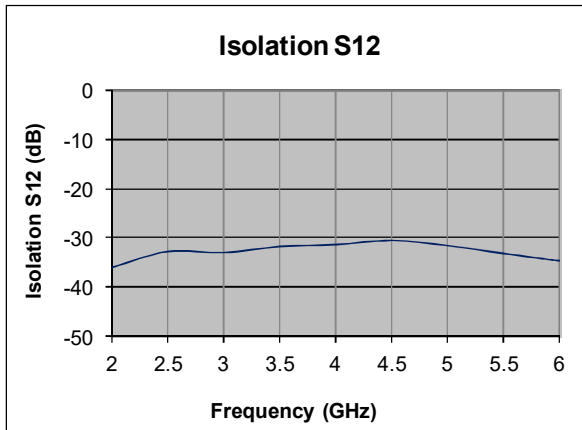
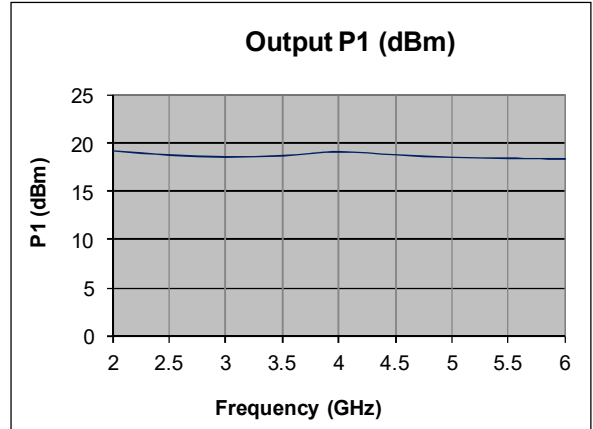
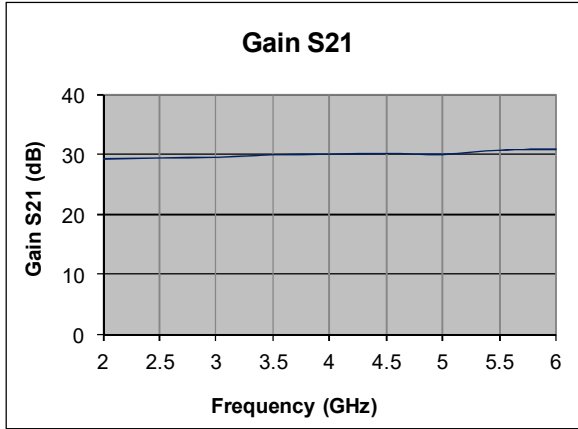
### Electrical Specifications @+25°C, Z<sub>in</sub>=Z<sub>out</sub>= 50 Ω, V<sub>supply</sub> = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	2		6
Gain (S21) f = 2GHz	dB		29.2	
f = 4GHz	dB	28.0	30.0	
f = 6GHz	dB		30.7	
Gain Flatness	dB		± 0.8	
Output Power P <sub>1dB</sub>	dBm		+18	
Output Third Order Intercept IP3	dBm		+30	
Noise Figure @ 4GHz	dB		2.5	
Reverse Isolation (S12) @ 4GHz	dB		-30	
VSWR-Input (S11)			1.6:1	
VSWR-Output (S22)			1.6:1	
DC Power Supply - voltage	V	9	12	15
DC Power Supply - current	mA		150	
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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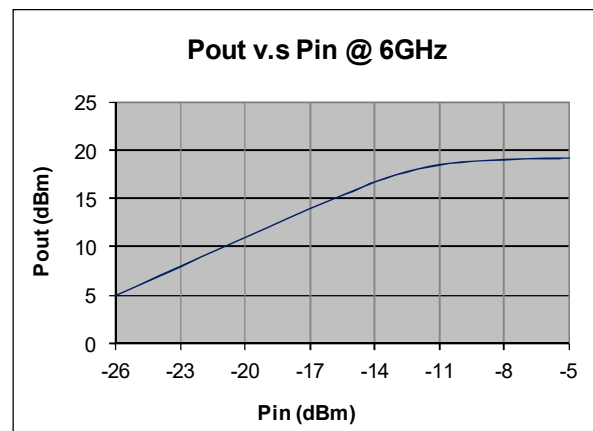
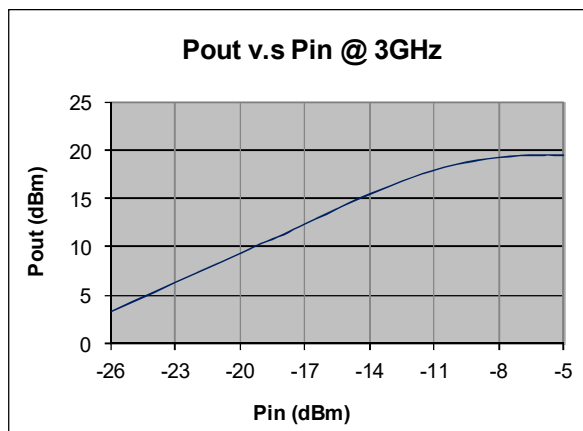
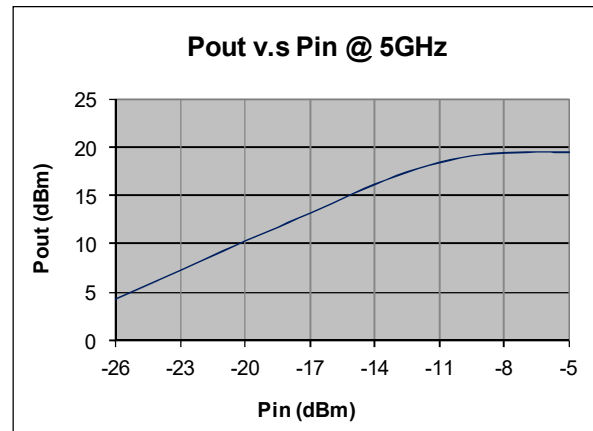
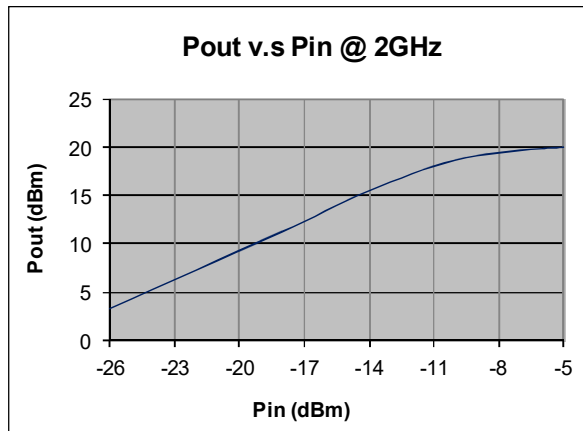
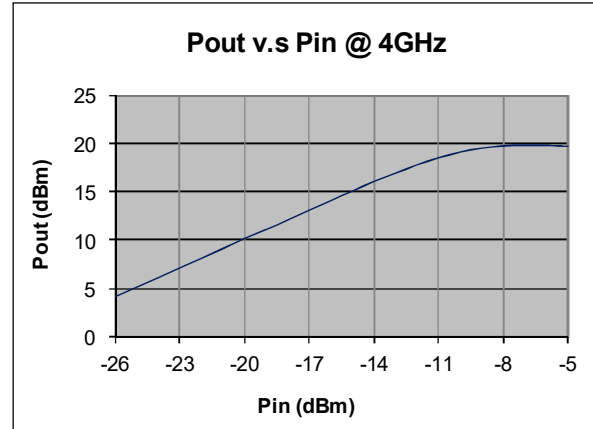
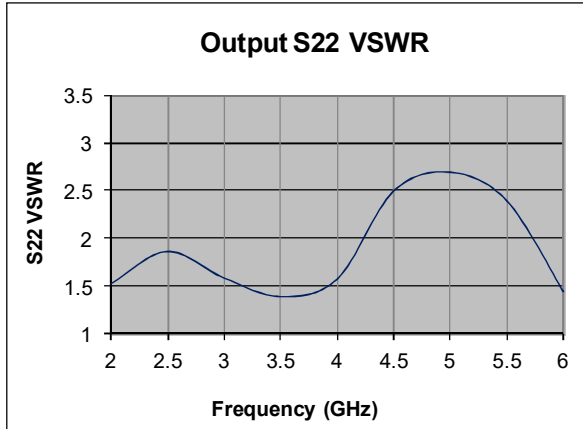
### Typical Performance @+25 °C



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### Typical Performance @+25 °C



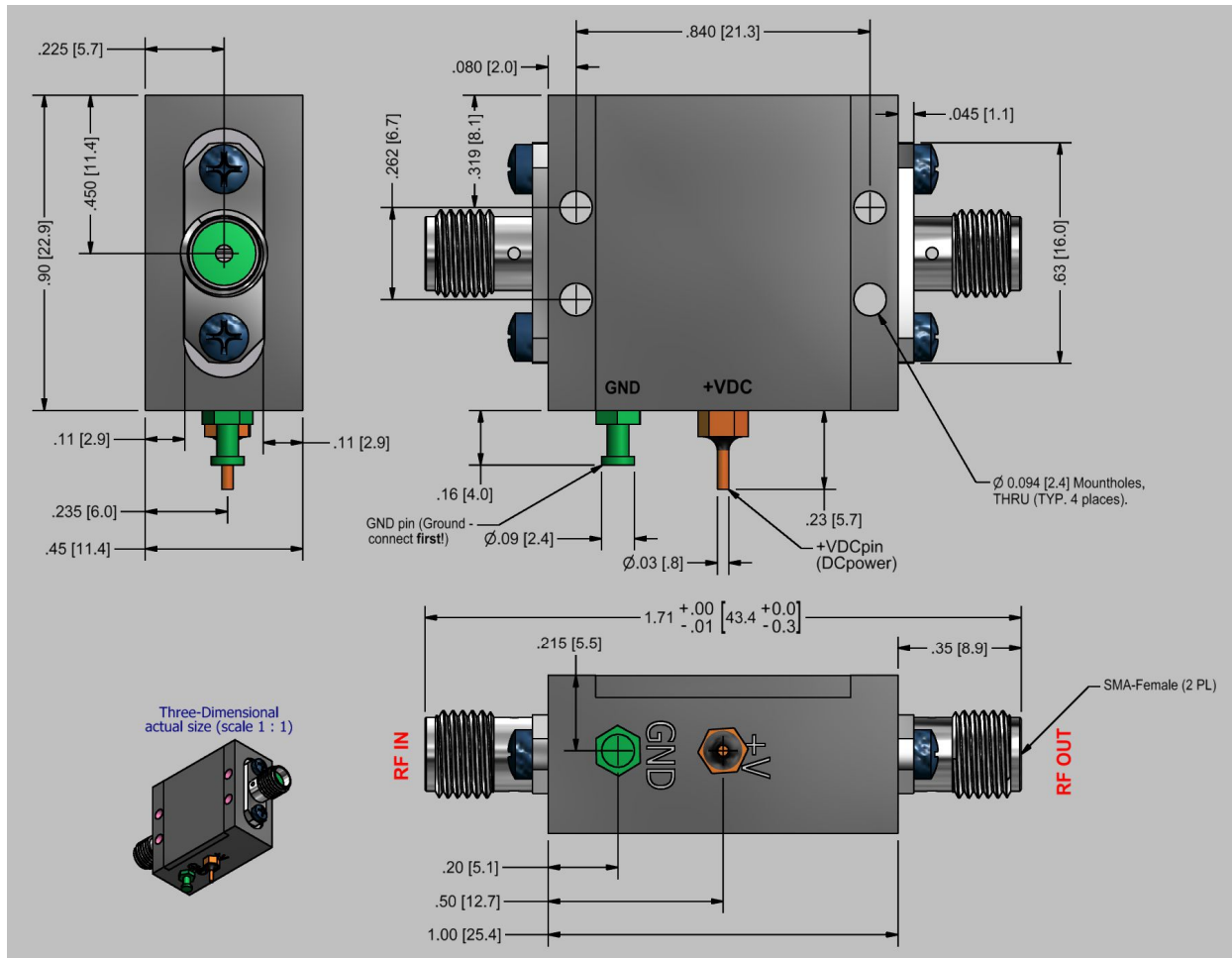
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+3dBm
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**