

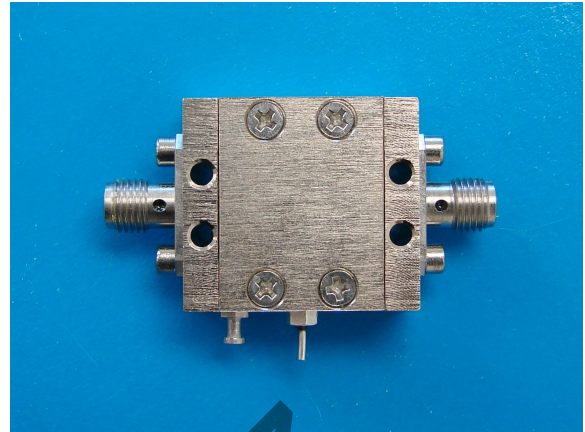
## WNA Series

## 1000– 3500MHz Low Noise Amplifier

### Features

- Frequency Range: 1000-3500MHz
- Gain: 40dB
- $P_{1dB}$ : +18dBm
- IP3: +34dBm
- Noise Figure: 1.0dB
- DC Power: +12V @ 115mA
- Internally Voltage Regulated
- RF Connector: SMA-Female

### Photo



### Description

WNA-120 is a high performance Microwave Low Noise Amplifier, with standard frequency range of 1000MHz to 3500MHz.

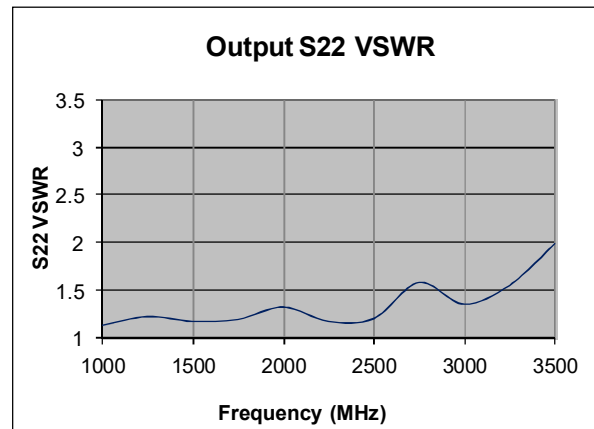
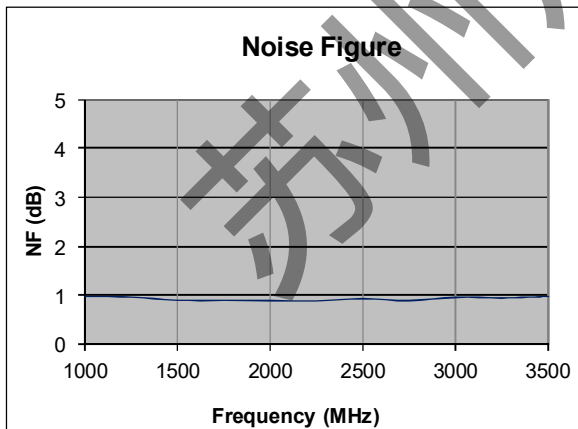
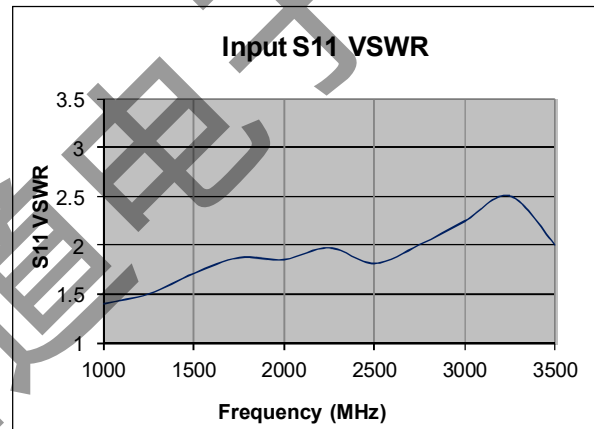
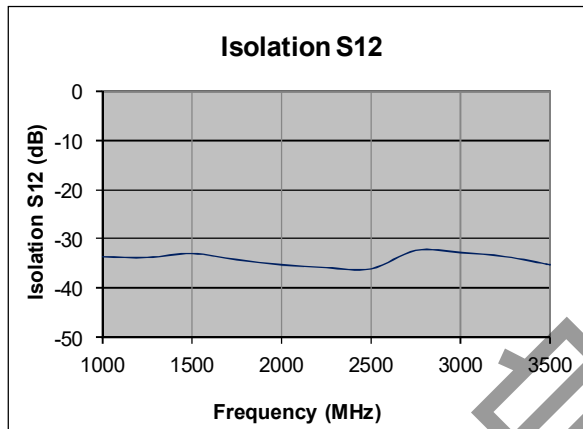
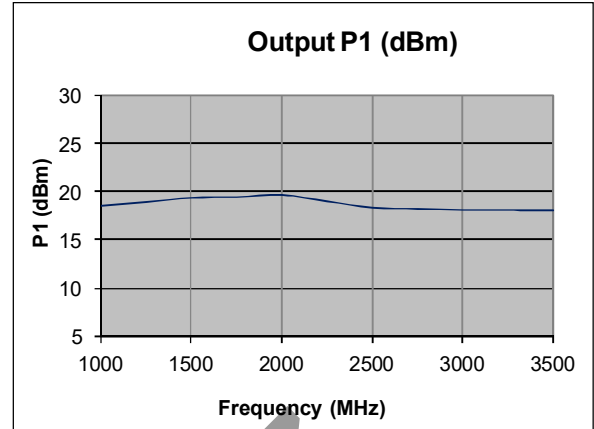
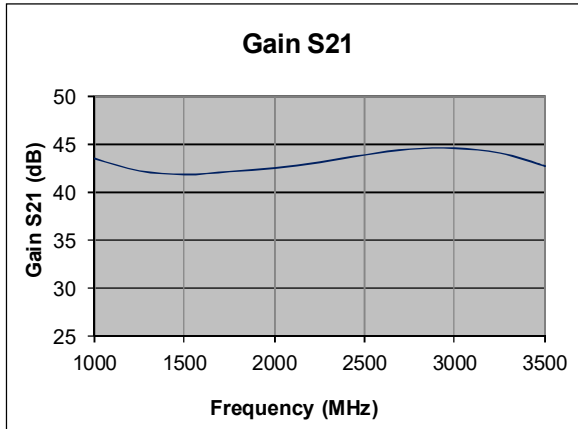
### Electrical Specifications @+25°C, $Z_{in}=Z_{out}= 50 \Omega$ , $V_{supply} = +12VDC$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1000		3500
Gain (S21) f = 1000MHz	dB		43.5	
f = 2250MHz	dB	40.0	43.0	
f = 3500MHz	dB		42.5	
Gain Flatness	dB		± 1.0	
Output Power $P_{1dB}$	dBm		+18	
Output Third Order Intercept IP3	dBm		+34	
Noise Figure	dB		1.0	
Reverse Isolation (S12)	dB		-33	
VSWR-Input (S11)			2.0:1	
VSWR-Output (S22)			1.2:1	
DC Power Supply - voltage	V	7	12	15
DC Power Supply - current	mA		115	
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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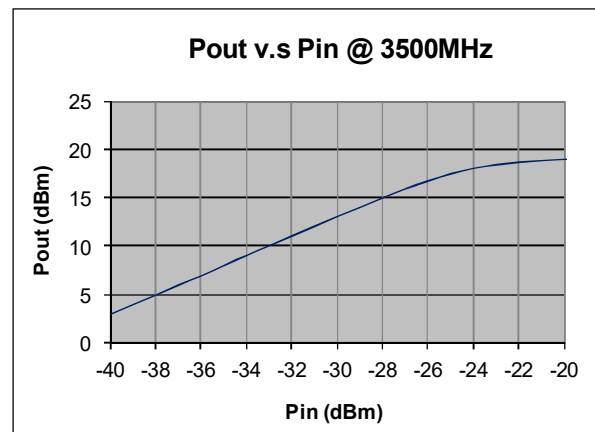
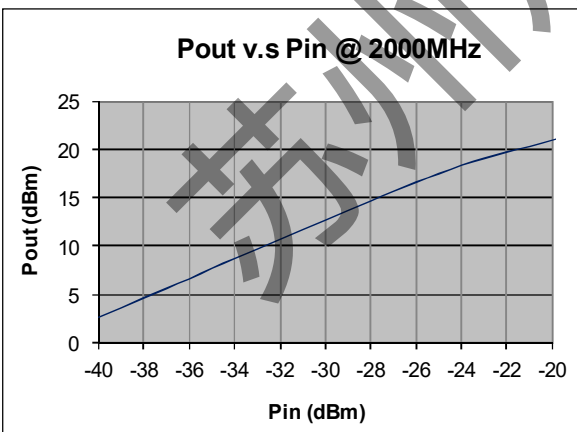
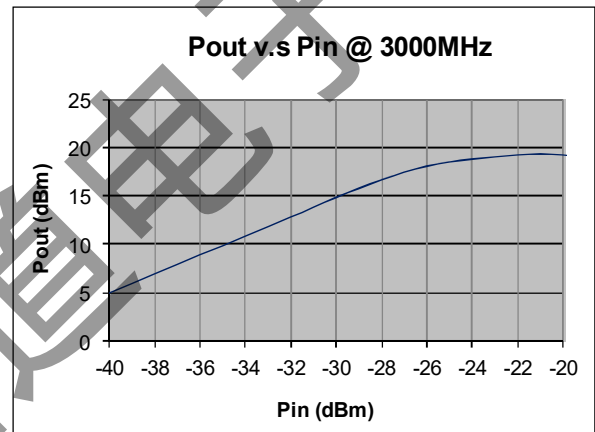
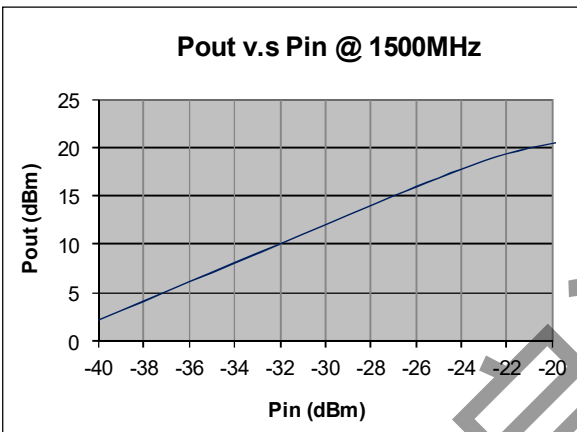
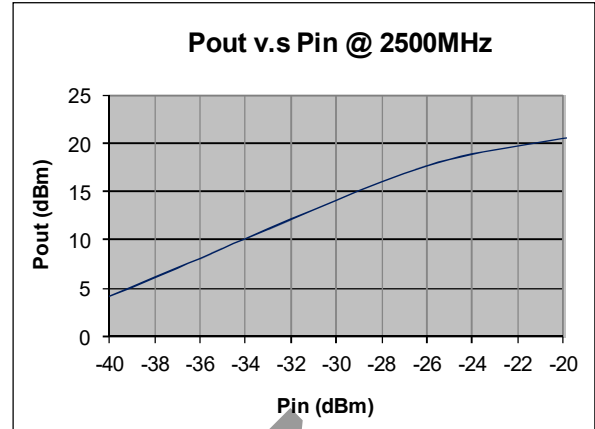
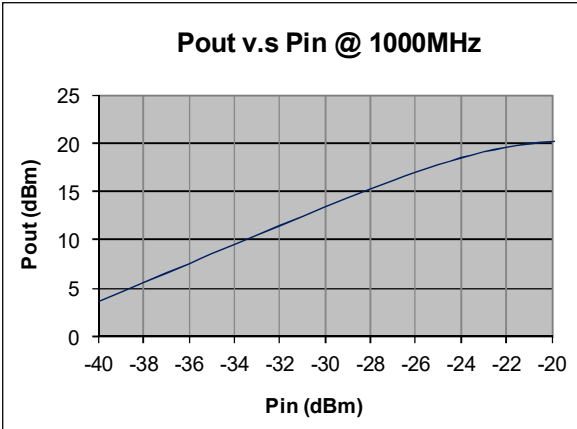
### Typical Performance @+25 °C



**WNA Series**

**1000– 3500MHz Low Noise Amplifier**

**Typical Performance @+25 °C**



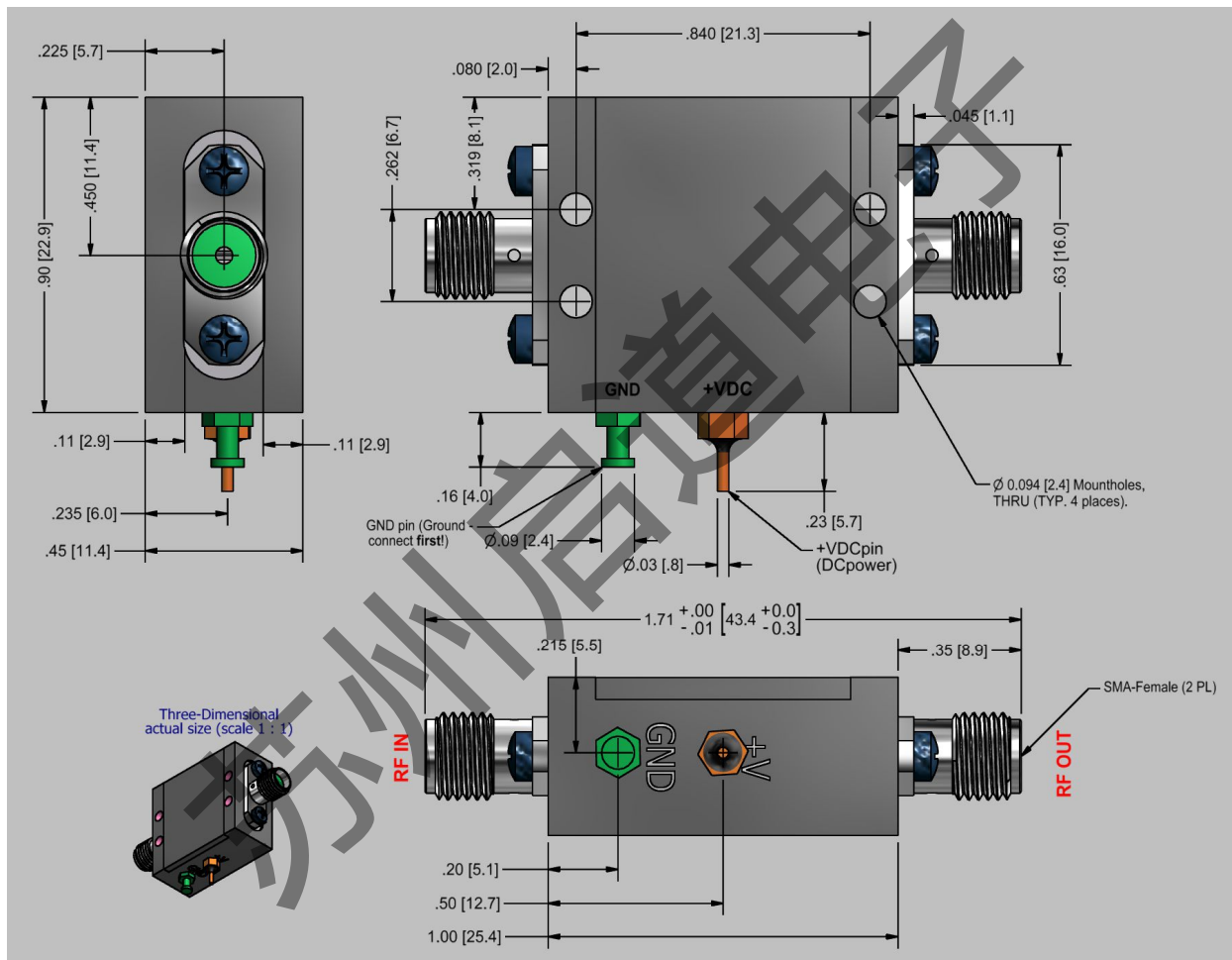
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+33dBm
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**