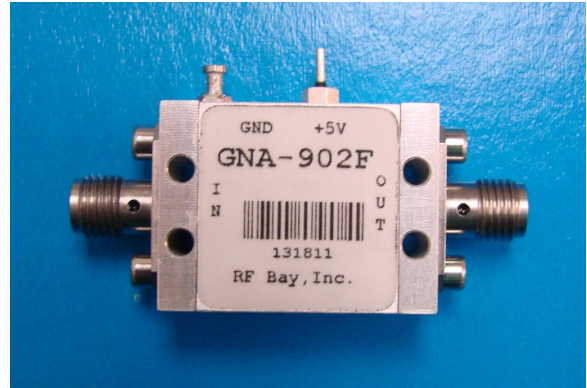


**GNA Series****5 – 10GHz Low Noise Amplifier****Features**

- Frequency Range: 5-10GHz
- Gain: 19dB
- P<sub>1dB</sub>: +16dBm
- IP3: +28dBm
- Noise Figure: 2dB (typ.)
- DC Power: 5V @ 78mA
- SMA-female connectorized

**Photo****Description**

GNA-902F is a high performance Microwave Low Noise (& Driver) Amplifier, with standard frequency range of 5GHz to 10GHz.

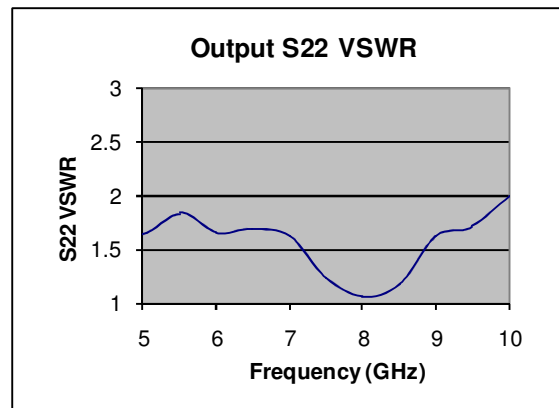
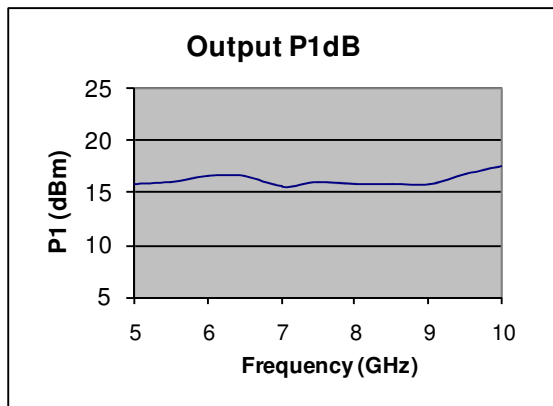
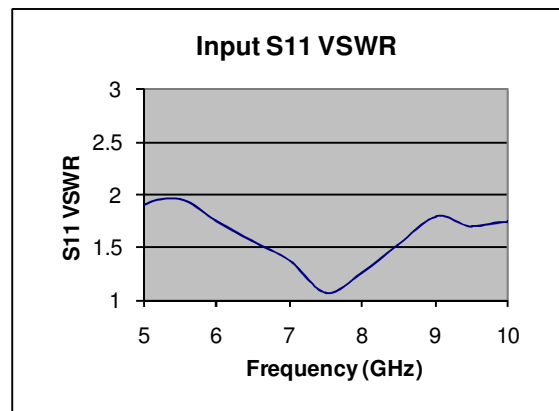
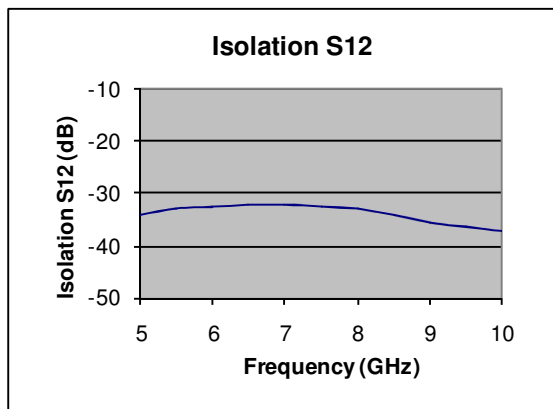
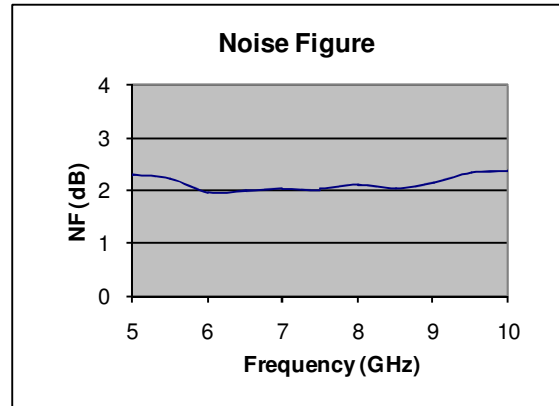
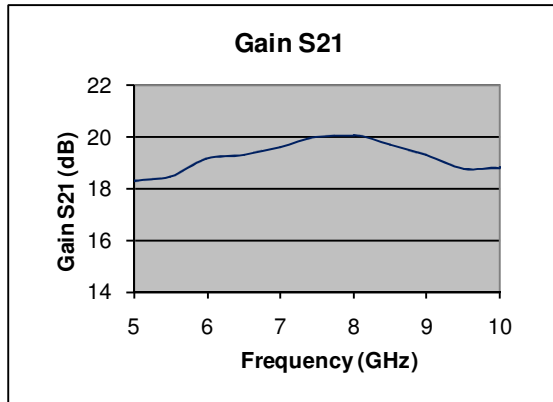
**Electrical Specifications @+25 °C, Z<sub>in</sub>=Z<sub>out</sub>=50 Ohm, V<sub>supply</sub> = +5VDC**

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	5		10
Gain (S <sub>21</sub> ) f = 5.0GHz	dB		17.5	
f = 7.5GHz	dB		19.5	
f = 10.0GHz	dB		18.0	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P <sub>1dB</sub>	dBm	+15	+16	
Saturated Output Power P <sub>Sat</sub>	dBm		+18	
Output Third Order Intercept IP3	dBm		+28	
Noise Figure @7.5GHz	dB		2.0	2.2
Reverse Isolation (S <sub>12</sub> ) @7.5GHz	dB		-32	
VSWR-Input (S <sub>11</sub> )	ratio:1	1.9 @5GHz	1.1 @7.5GHz	1.7 @10GHz
VSWR-Output (S <sub>22</sub> )	(unitless)	1.7 @5GHz	1.3 @7.5GHz	2.0 @10GHz
DC Power Supply - voltage	V	4.5	5.0	5.5
DC Power Supply - current	mA		78	110
Operating Temperature	°C	-40		+85
Size (RF/DC feedthru's excluded)	Inch	1.00 (L) x 0.75 (W) x 0.45 (H)		
Weight	Oz	0.6 (17 grams)		

**GNA Series**

**5 – 10GHz Low Noise Amplifier**

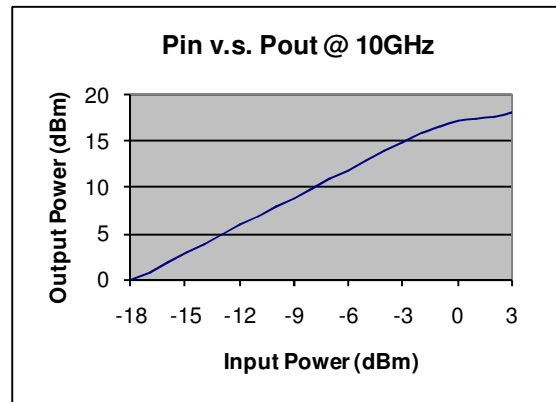
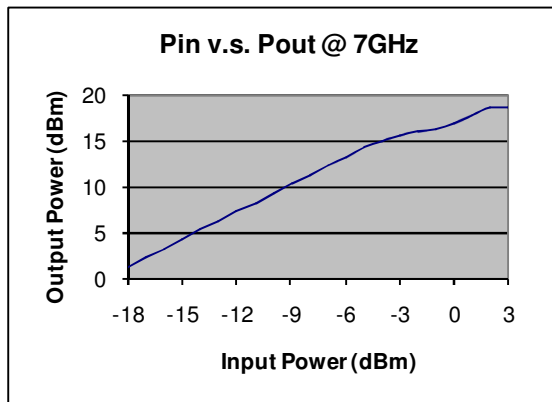
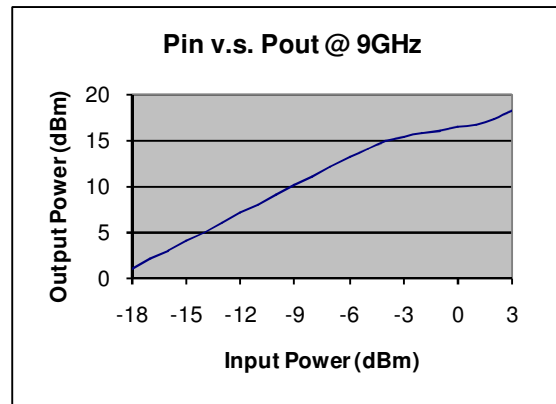
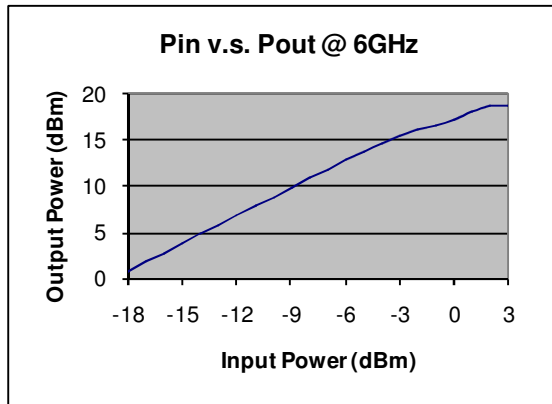
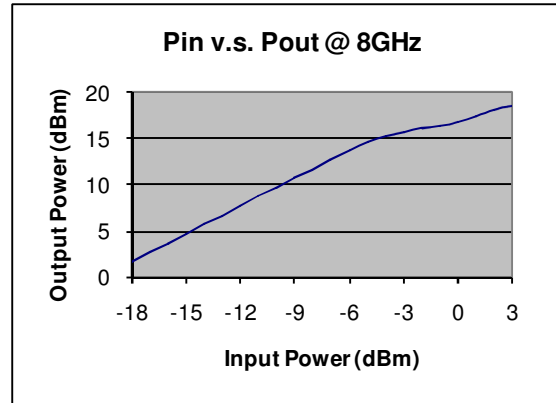
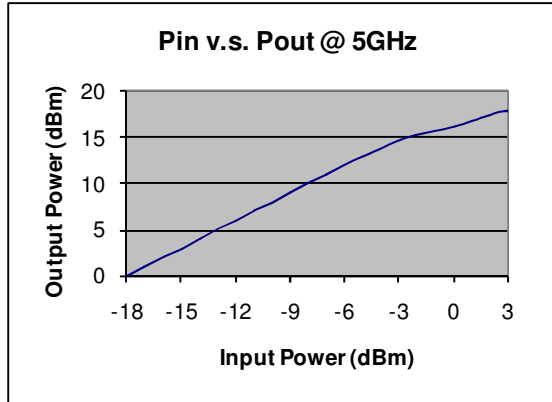
**Typical Performance @+25 °C**



## GNA Series

## 5 – 10GHz Low Noise Amplifier

### Typical Performance @+25 °C



**GNA Series**

**5 – 10GHz Low Noise Amplifier**

**Absolute Maximum Ratings**

Parameter	Absolute Maximum
RF Input Power	+10dBm
Supply Voltage (Survival)	+16V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

**Outline**

