

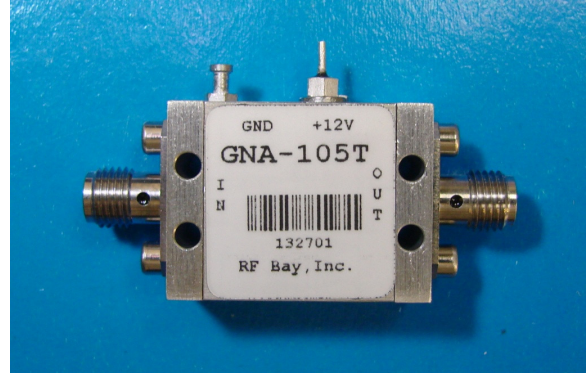
## GNA Series

## 400 – 2500MHz Low Noise Amplifier

### Features

- Frequency Range: 400 – 2500MHz
- Gain: 17dB
- P<sub>1dB</sub>: +22dBm
- IP3: +34dBm
- Noise Figure: 1dB (typ.)
- DC Power: 12V @ 50mA
- SMA-female connectorized

### Photo



### Description

GNA-105T is a high performance Microwave Low Noise (& Driver) Amplifier, with standard frequency range of 400MHz to 2000MHz.

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

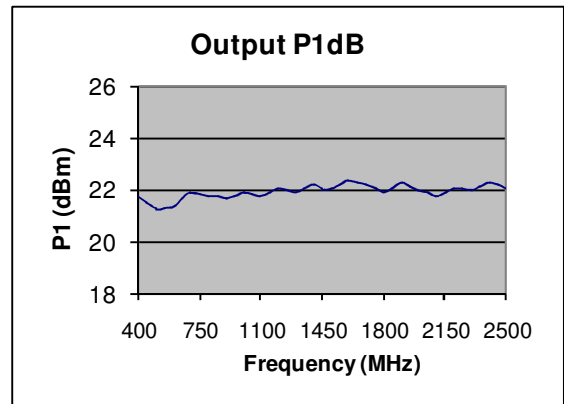
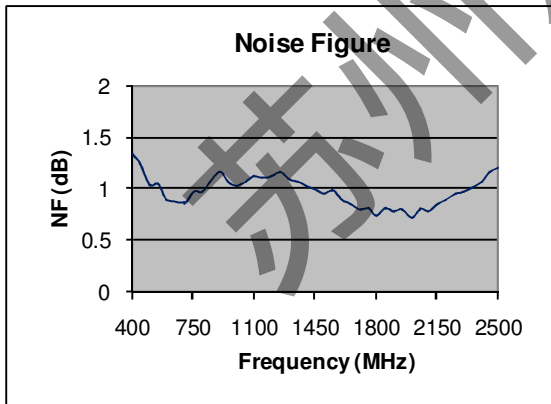
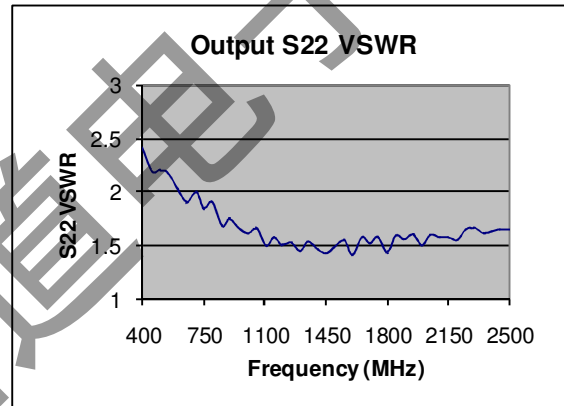
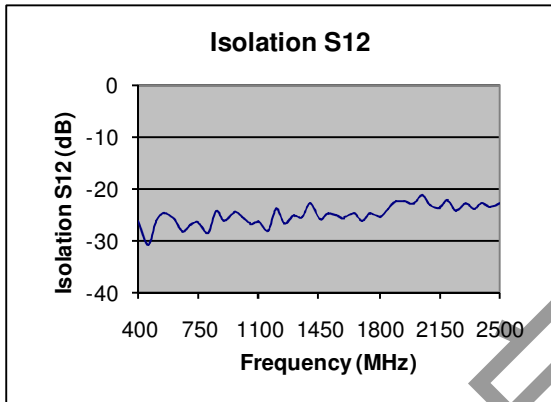
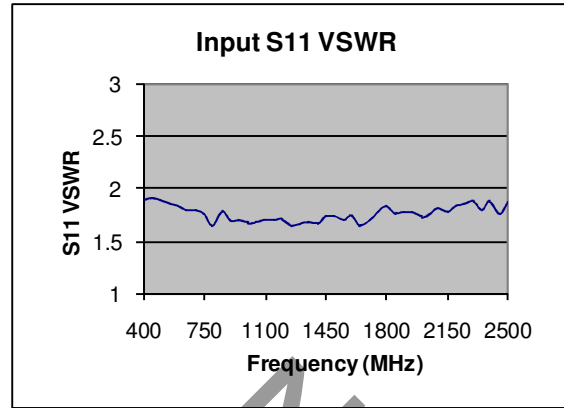
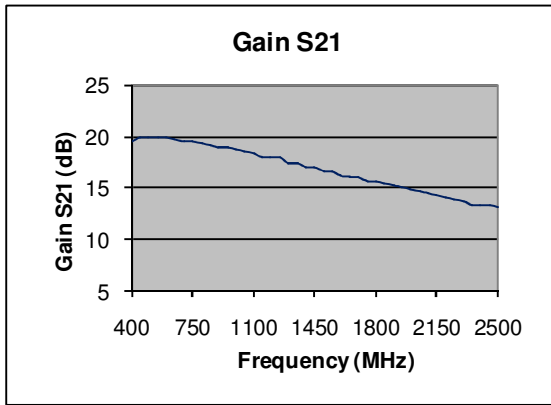
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	400		2500
Gain (S <sub>21</sub> ) f = 400MHz	dB		19	
f = 1450MHz	dB		17	
f = 2500MHz	dB		13	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P <sub>1dB</sub>	dBm	+20	+22	
Saturated Output Power P <sub>Sat</sub>	dBm		+23	
Output Third Order Intercept IP3	dBm	+30	+34	
Noise Figure @1450MHz	dB		1.0	1.2
Reverse Isolation (S <sub>12</sub> ) @1450MHz	dB		-25	
VSWR-Input (S <sub>11</sub> )	ratio:1	1.9@400MHz	1.8@1450MHz	1.9@2500MHz
VSWR-Output (S <sub>22</sub> )	(unitless)	2.4@400MHz	1.5@1450MHz	1.7@2500MHz
DC Power Supply - voltage	V	9	12	15
DC Power Supply - current	mA		50	95
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

## 400 – 2500MHz Low Noise Amplifier

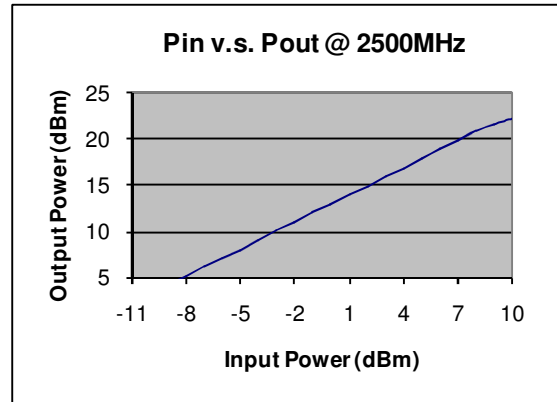
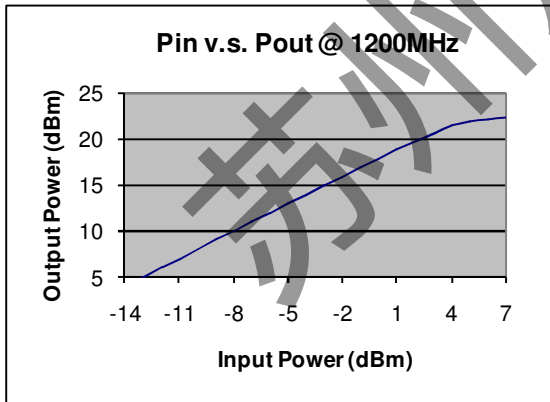
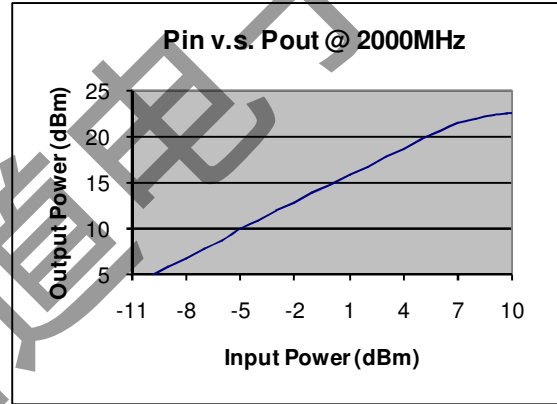
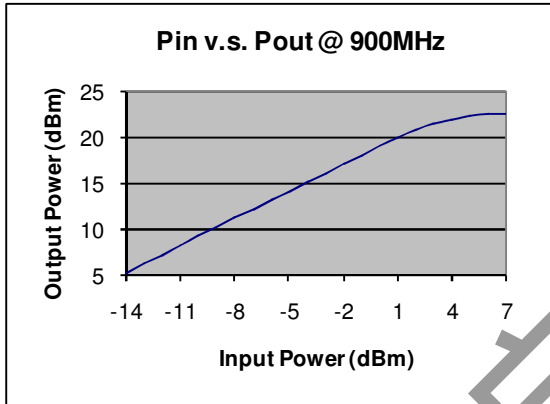
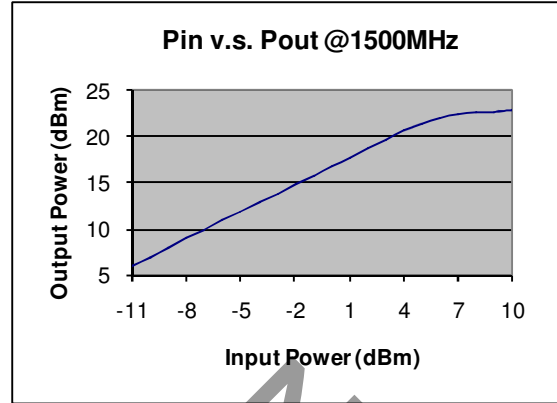
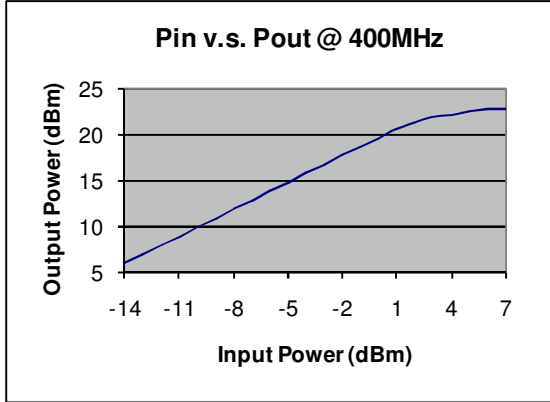
### Typical Performance @+25 °C



## GNA Series

## 400 – 2500MHz Low Noise Amplifier

### Typical Performance @+25 °C



## GNA Series

## 400 – 2500MHz Low Noise Amplifier

### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Supply Voltage (Survival)	+24V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

### Outline

