

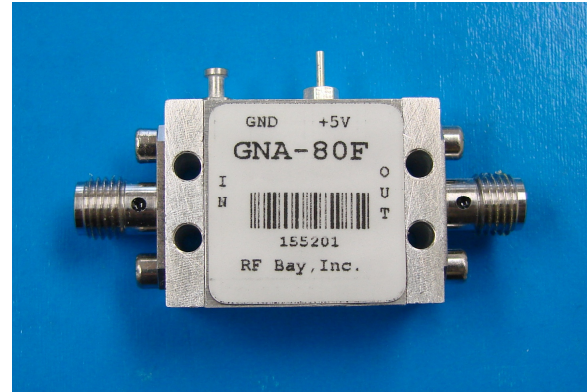
GNA Series

5 – 11GHz Low Noise Amplifier

Features

- Frequency Range: 5-11GHz
- Gain: 23dB
- P_{1dB}: +12dBm
- IP3: +22dBm
- Noise Figure: 1.7dB
- DC Power: +5V to +15V @ 50mA
- Internally Voltage Regulated
- RF Connector: SMA-Female

Photo



Description

GNA-80F is a high performance Microwave Low Noise Amplifier, with standard frequency range of 5GHz to 11GHz.

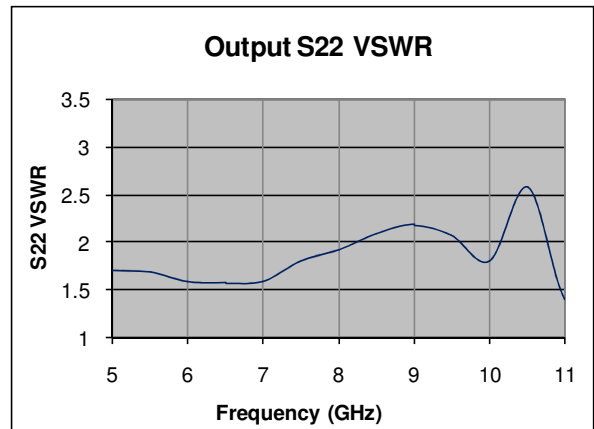
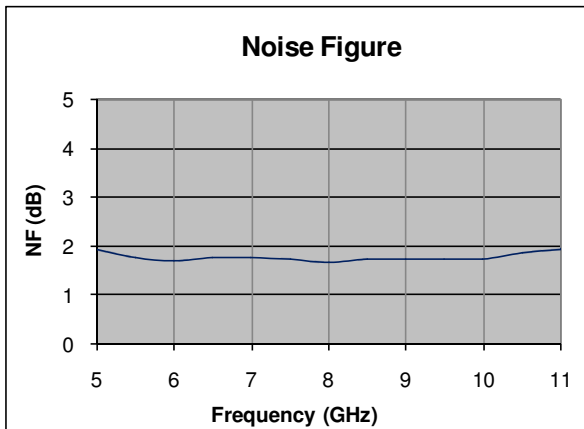
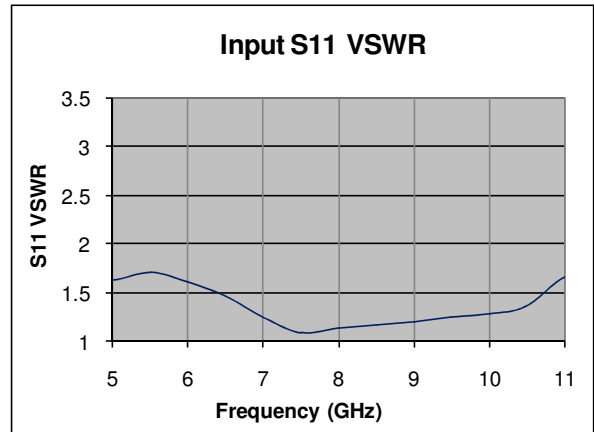
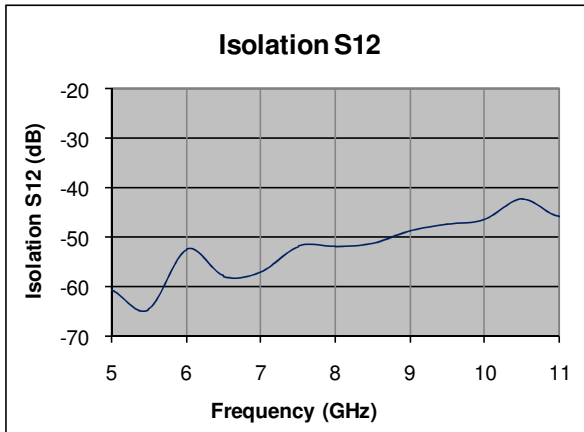
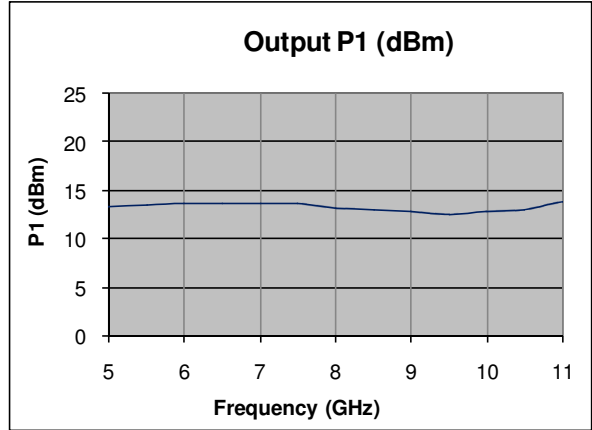
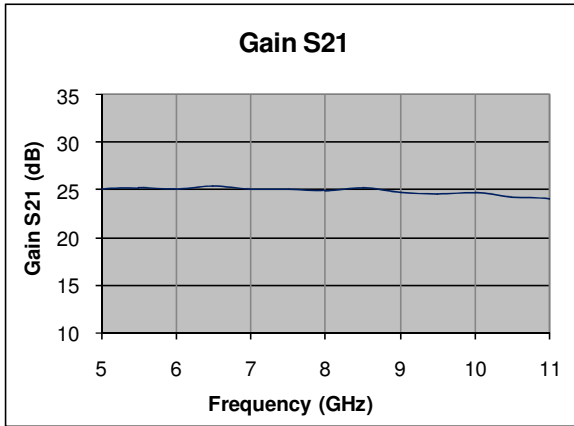
Electrical Specifications @+25°C, Z_{in}=Z_{out}=50 Ω, V_{supply} = +5VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	5		11
Gain (S ₂₁) f = 5GHz	dB		25.0	
f = 8GHz	dB		25.0	
f = 11GHz	dB		24.0	
Gain Variation Over Temperature	dB/°C		0.014	0.025
Output Power P _{1dB}	dBm		+12	
Saturated Output Power P _{Sat}	dBm		+15	
Output Third Order Intercept IP3	dBm		+22	
Noise Figure @8GHz	dB		1.7	
Reverse Isolation (S ₁₂) @8GHz	dB		-50	
VSWR-Input (S ₁₁)	ratio:1	1.6 @5GHz	1.2 @8GHz	1.7 @11GHz
VSWR-Output (S ₂₂)	(unitless)	1.7 @5GHz	1.9 @8GHz	1.4 @11GHz
DC Power Supply - voltage	V	5		15
DC Power Supply - current	mA		50	75
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 – 11GHz Low Noise Amplifier

Typical Performance @+25 °C



GNA Series

5 – 11GHz Low Noise Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Supply Voltage (Survival)	+16V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline

