

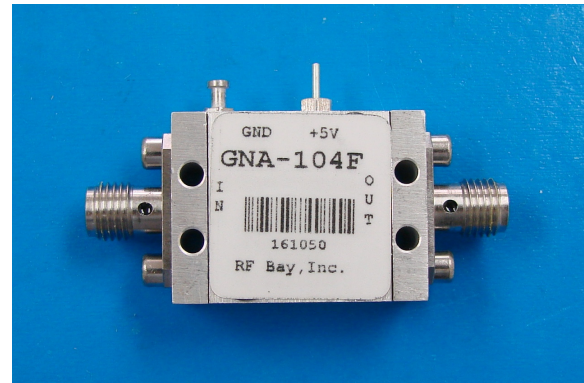
GNA Series

800-4000MHz Low Noise Amplifier

Features

- Frequency Range: 800-4000MHz
- Gain: 17dB
- P_{1dB} : +13dBm
- IP3: +32dBm
- Noise Figure: 0.7dB
- DC Power: +5V to +15V@115mA
- Internally Voltage Regulated
- RF Connector: SMA-Female

Photo



Description

GNA-104F is a high performance Microwave Low Noise Amplifier, with standard frequency range of 800MHz to 4000MHz.

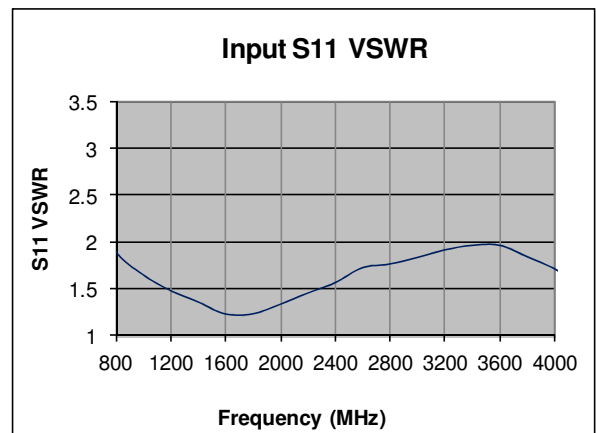
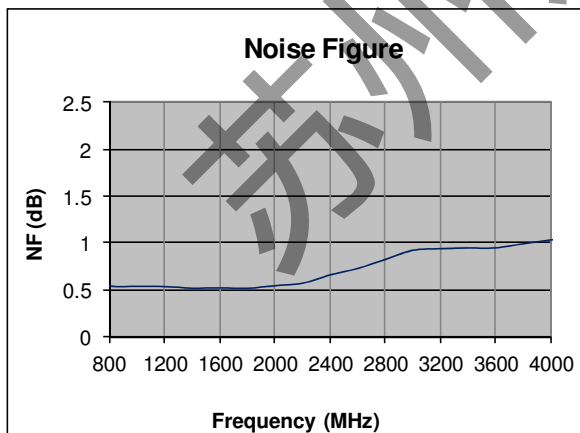
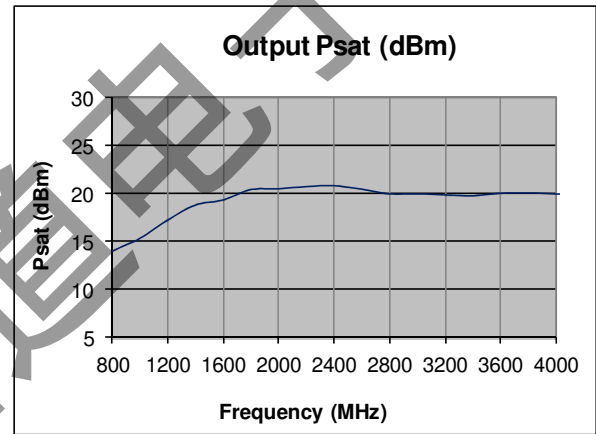
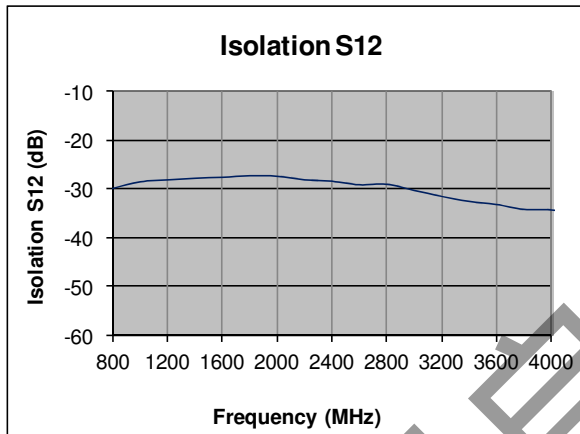
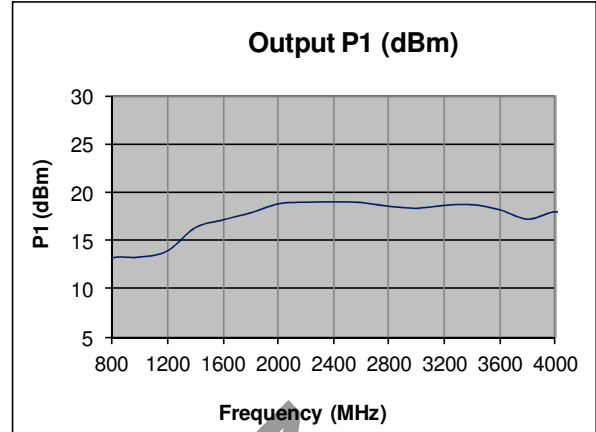
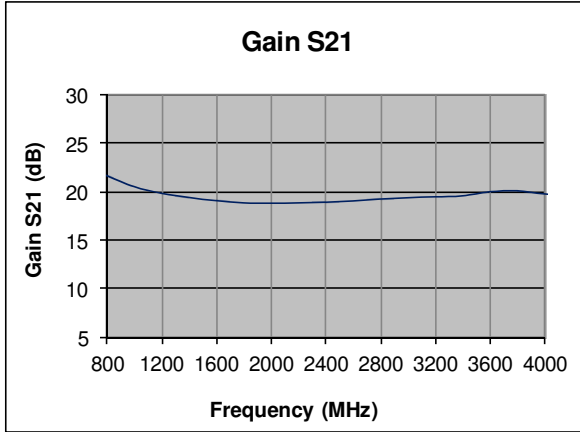
Electrical Specifications @+25°C, $Z_{in}=Z_{out}=50\ \Omega$, $V_{supply} = +5VDC$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	800		4000
Gain (S21) f = 800MHz	dB		21.5	
f = 2400MHz	dB	17.0	18.5	
f = 4000MHz	dB		19.5	
Gain Variation Over Temperature	dB/°C		0.014	0.025
Output Power P_{1dB}	dBm		+13	
Saturated Output Power P_{Sat}	dBm		+14	
Output Third Order Intercept IP3	dBm		+32	
Noise Figure @2400MHz	dB		0.7	0.8
Reverse Isolation(S12) @2400MHz	dB		-28	
VSWR-Input (S11)	ratio:1	1.9 @800MHz	1.6 @2400MHz	1.7 @4000MHz
VSWR-Output (S22)	(unitless)	1.4 @800MHz	1.5 @2400MHz	2.0 @4000MHz
DC Power Supply - voltage	V	5		15
DC Power Supply - current	mA		115	
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)		

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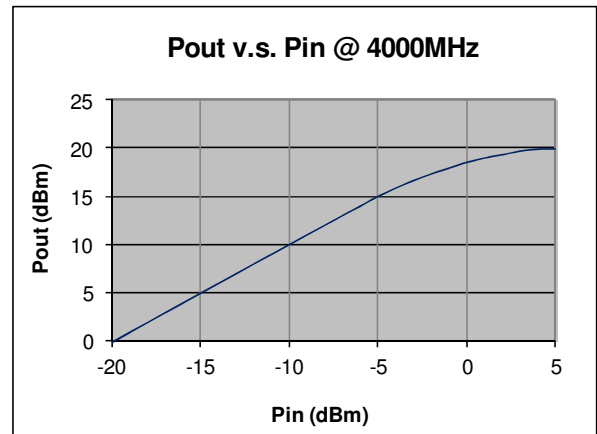
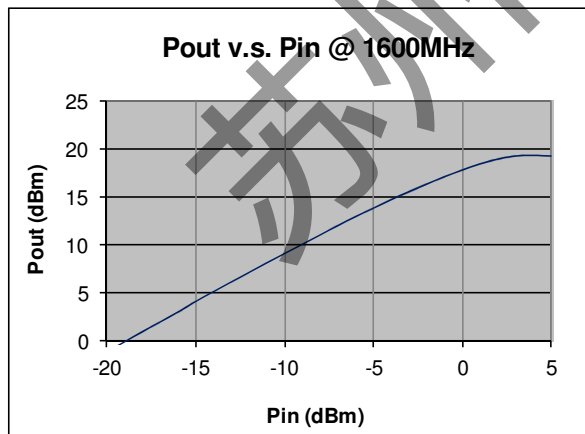
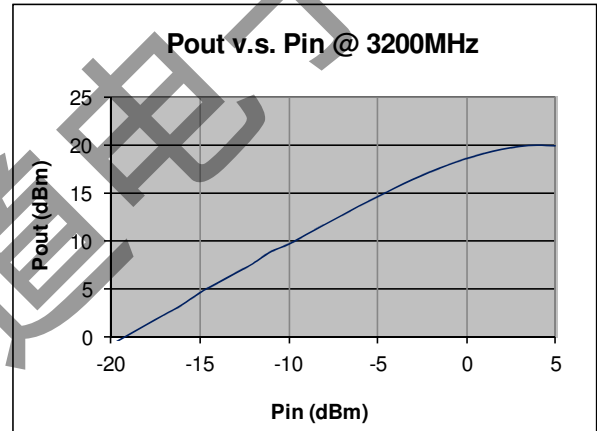
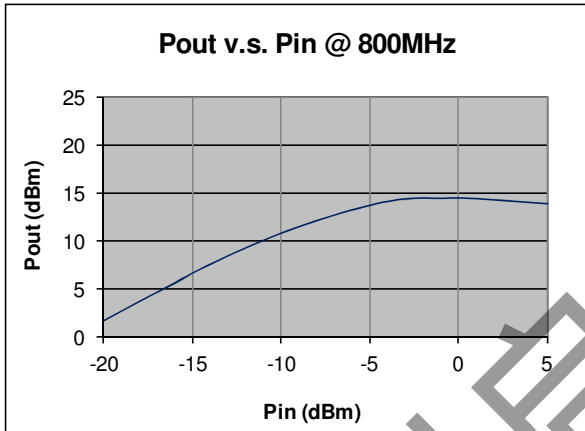
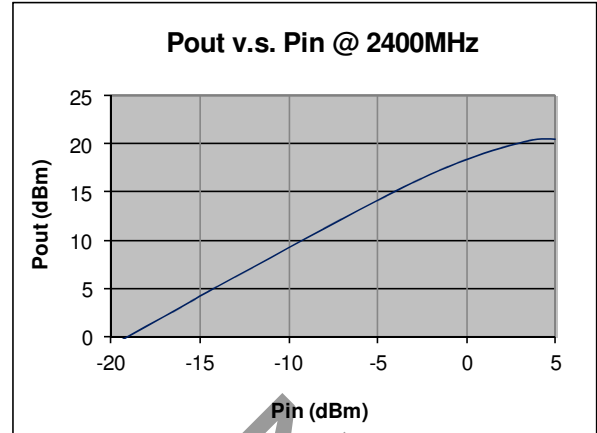
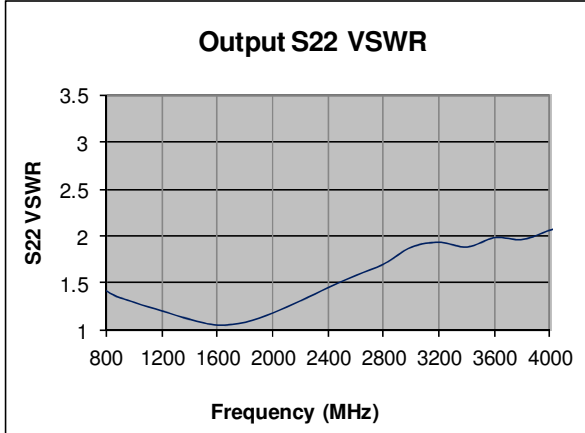
Typical Performance @+25 °C



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Typical Performance @+25 °C



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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+33dBm
Supply Voltage (Survival)	+16V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline

