

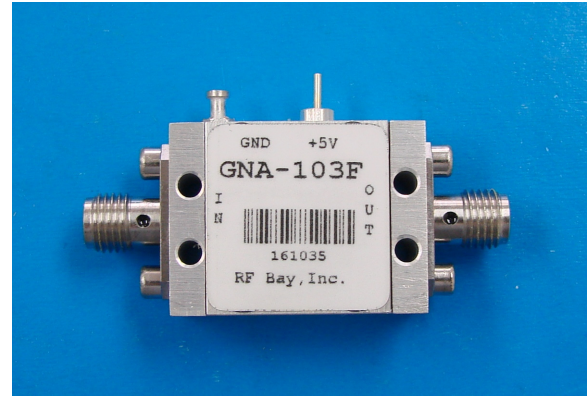
GNA Series

1500-3500MHz Low Noise Amplifier

Features

- Frequency Range:1500-3500MHz
- Gain: 17dB
- P_{1dB}: +16.5dBm
- IP3: +34dBm
- Noise Figure: 0.7dB
- DC Power: +5V to +15V@115mA
- Internally Voltage Regulated
- RF Connector: SMA-Female

Photo



Description

GNA-103F is a high performance Microwave Low Noise Amplifier, with standard frequency range of 1500MHz to 3500MHz.

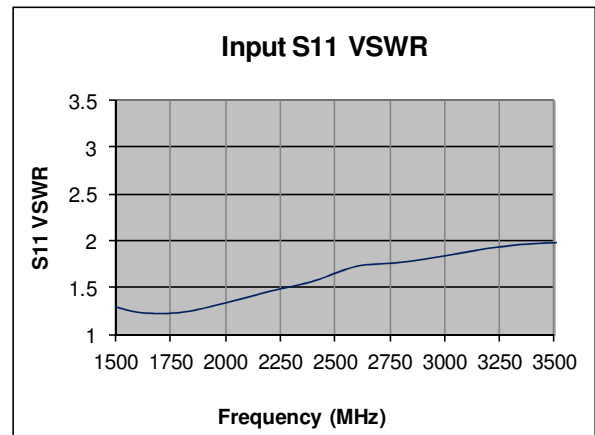
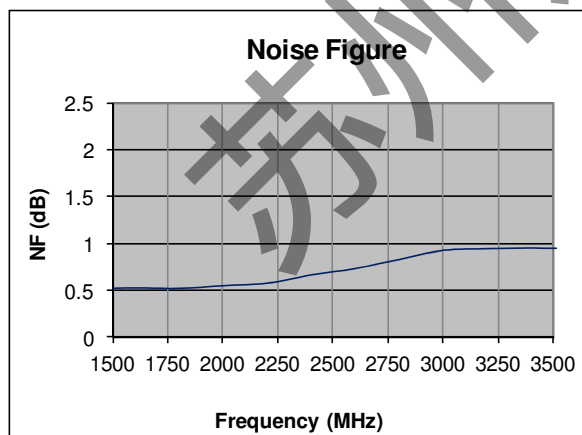
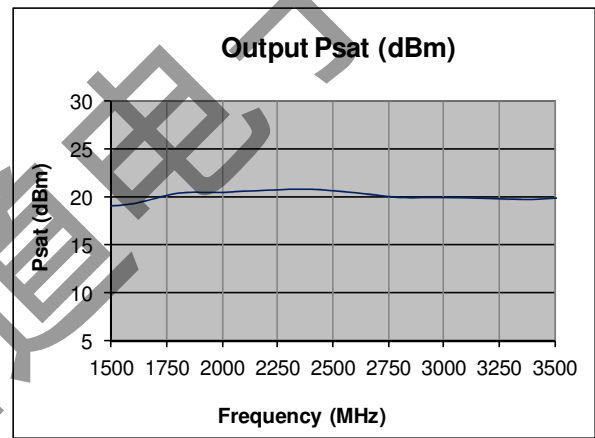
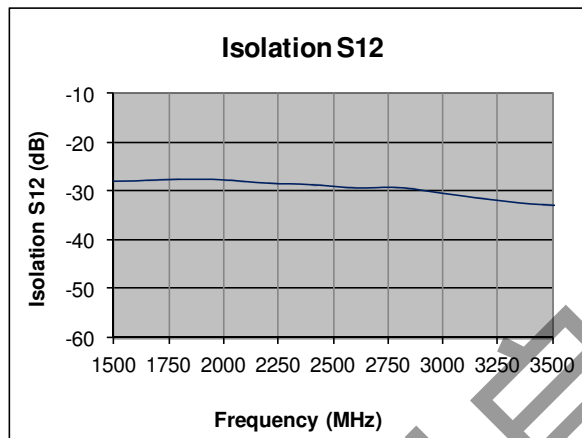
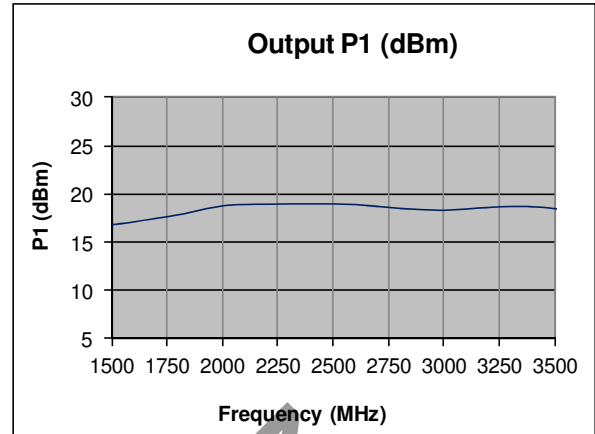
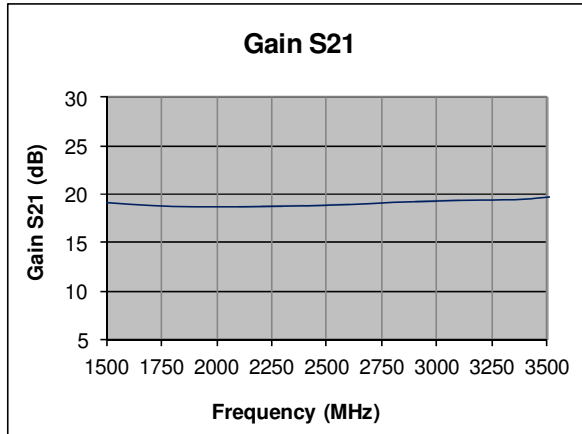
Electrical Specifications @+25°C, Z_{in}=Z_{out}=50 Ω, V_{supply} = +5VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1500		3500
Gain (S ₂₁) f = 1500MHz	dB		19.0	
f = 2500MHz	dB	17.0	19.0	
f = 3500MHz	dB		20.0	
Gain Variation Over Temperature	dB/°C		0.014	0.025
Output Power P _{1dB}	dBm		+16.5	
Saturated Output Power P _{Sat}	dBm		+19	
Output Third Order Intercept IP3	dBm		+34	
Noise Figure @2500MHz	dB		0.7	0.8
Reverse Isolation(S ₁₂) @2500MHz	dB		-27	
VSWR-Input (S ₁₁)	ratio:1	1.3 @1500MHz	1.6 @2500MHz	2.0 @3500MHz
VSWR-Output (S ₂₂)	(unitless)	1.1 @1500MHz	1.5 @2500MHz	1.9 @3500MHz
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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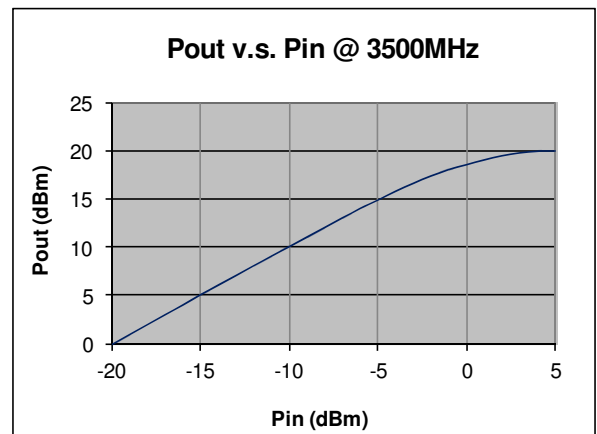
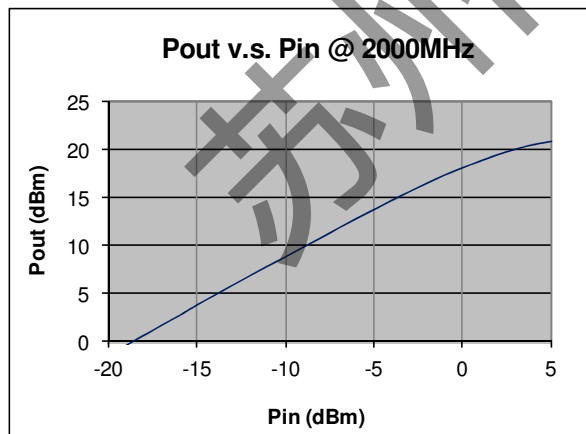
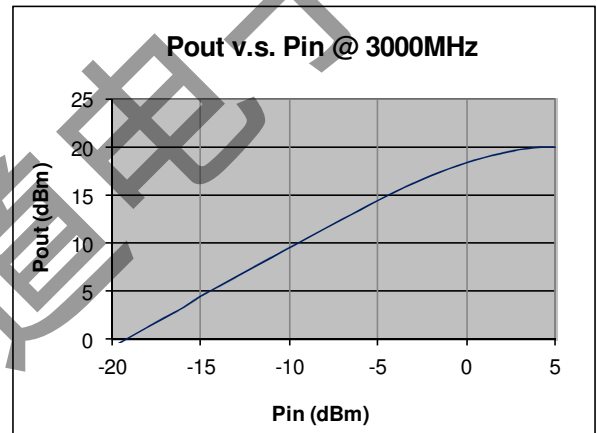
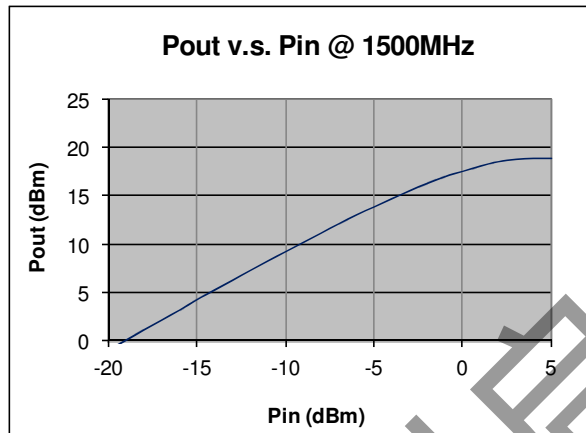
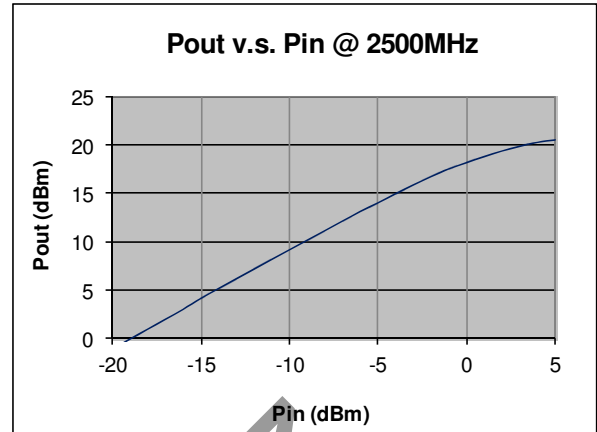
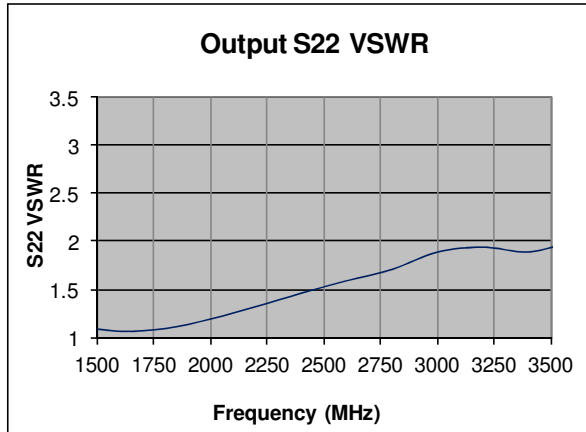
Typical Performance @+25 °C



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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

