

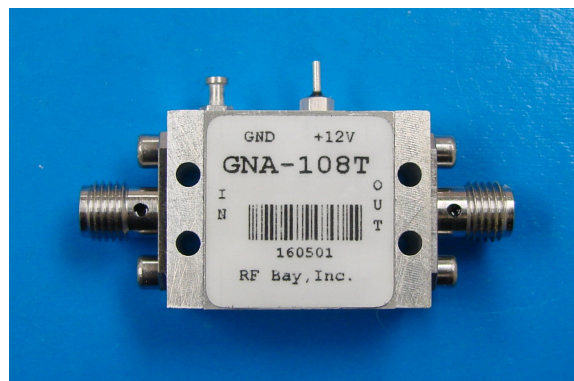
GNA Series

1000-2000MHz Low Noise Amplifier

Features

- Frequency Range:1000-2000MHz
- Gain: 20dB
- P_{1dB}: +20dBm
- IP3: +36dBm
- Noise Figure: 0.6dB
- DC Power: +9V to +15V @ 65mA
- Internally Voltage Regulated
- RF Connector: SMA-Female

Photo



Description

GNA-108T is a high performance Microwave Low Noise Amplifier, with standard frequency range of 1000MHz to 2000MHz.

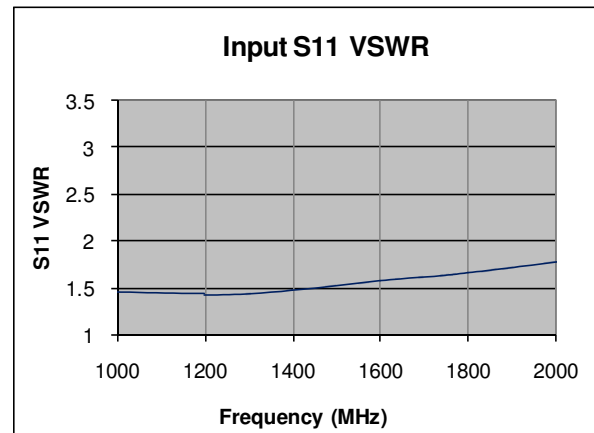
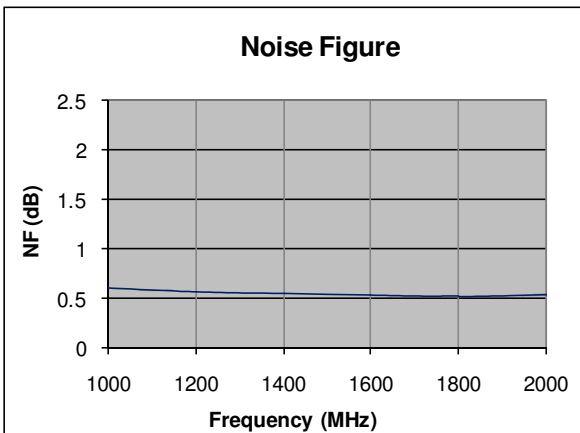
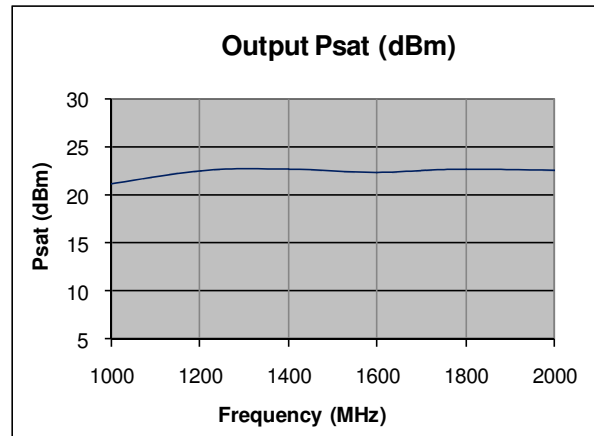
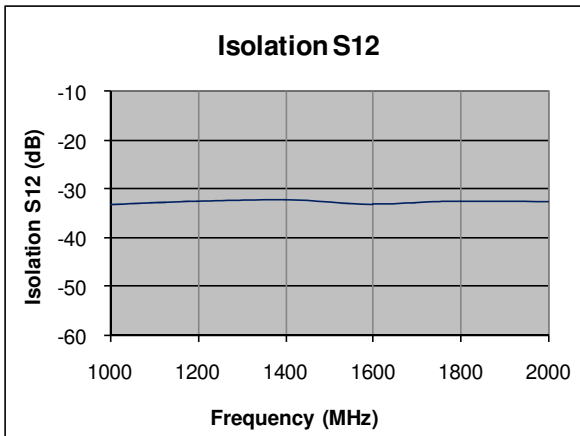
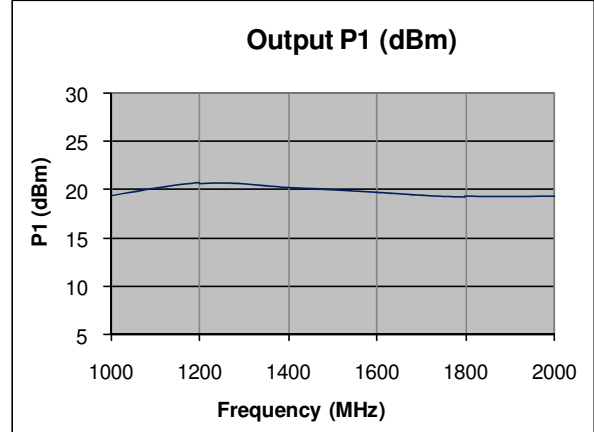
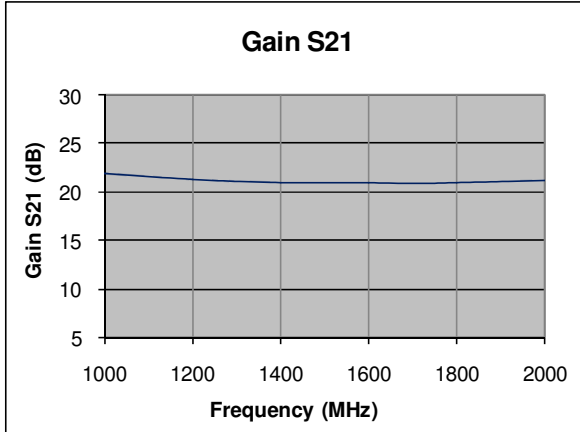
Electrical Specifications @+25°C, Z_{in}=Z_{out}=50 Ω, V_{supply} = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1000		2000
Gain (S ₂₁) f = 1000MHz	dB		21.8	
f = 1500MHz	dB		20.8	
f = 2000MHz	dB		21.0	
Gain Variation Over Temperature	dB/°C		0.014	0.025
Output Power P _{1dB}	dBm		+20	
Saturated Output Power P _{Sat}	dBm		+22	
Output Third Order Intercept IP3	dBm		+36	
Noise Figure @1500MHz	dB		0.6	0.8
Reverse Isolation(S ₁₂) @1500MHz	dB		-33	
VSWR-Input (S ₁₁)	ratio:1	1.4 @1000MHz	1.5 @1500MHz	1.8 @2000MHz
VSWR-Output (S ₂₂)	(unitless)	1.2 @1000MHz	1.3 @1500MHz	1.1 @2000MHz
DC Power Supply - voltage	V	9	12	15
DC Power Supply - current	mA		65	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)		

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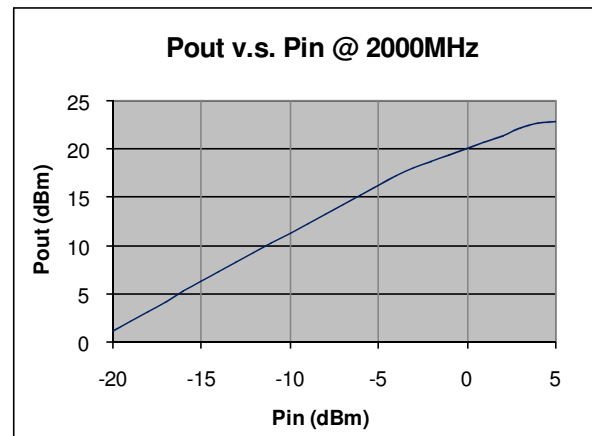
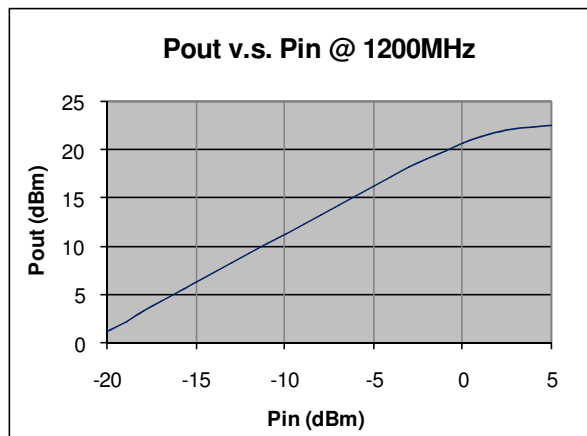
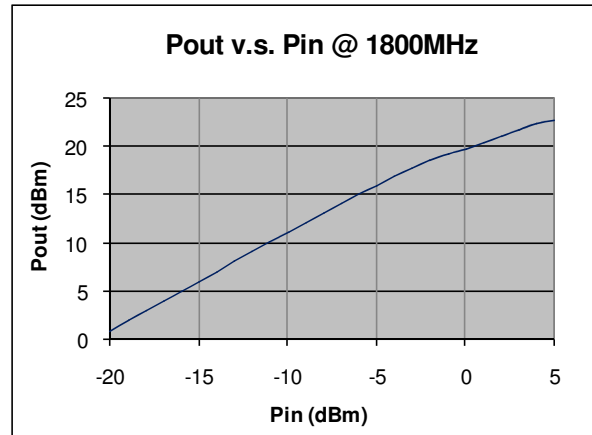
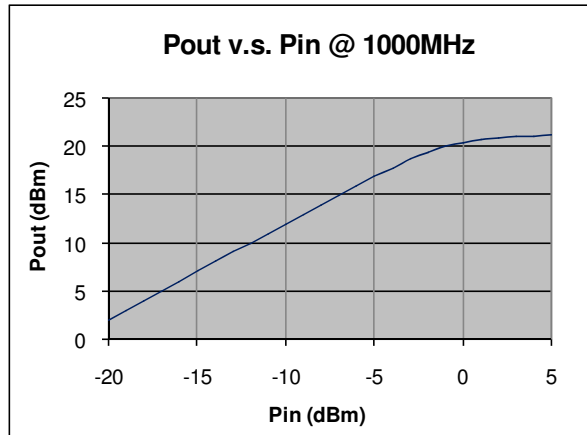
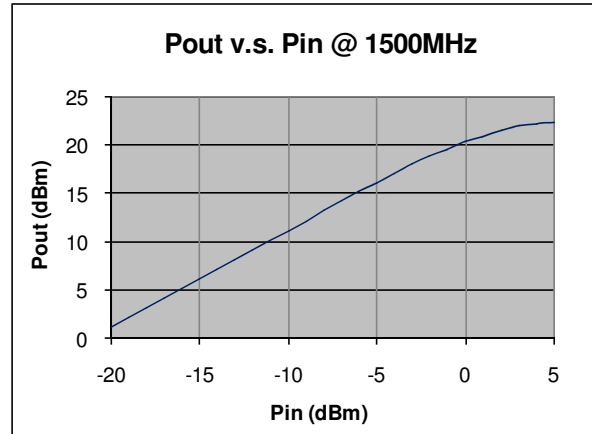
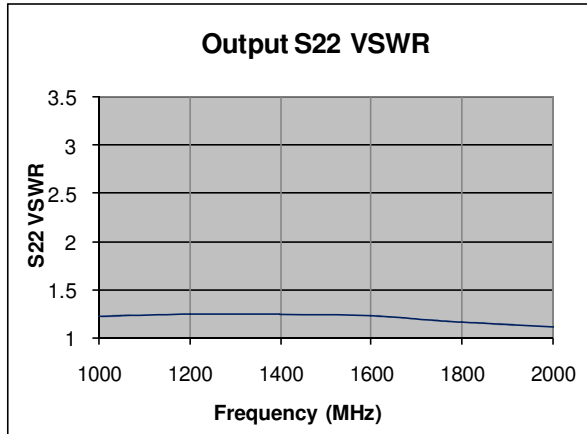
Typical Performance @+25 °C



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Typical Performance @+25 °C



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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+27dBm
Supply Voltage (Survival)	+16V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline

