

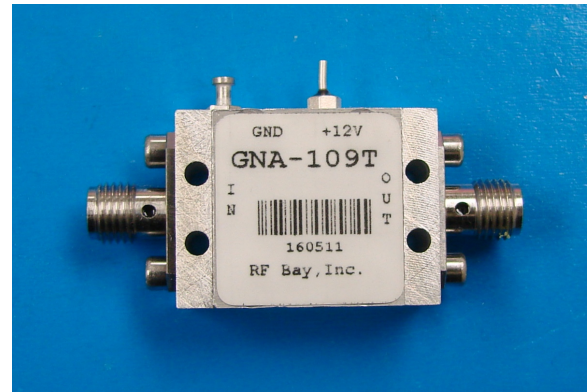
GNA Series

700-2700MHz Low Noise Amplifier

Features

- Frequency Range: 700-2700MHz
- Gain: 21dB
- P_{1dB}: +18dBm
- IP3: +35dBm
- Noise Figure: 0.6dB
- DC Power: +9V to +15V @ 65mA
- Internally Voltage Regulated
- RF Connector: SMA-Female

Photo



Description

GNA-109T is a high performance Microwave Low Noise Amplifier, with standard frequency range of 700MHz to 2700MHz.

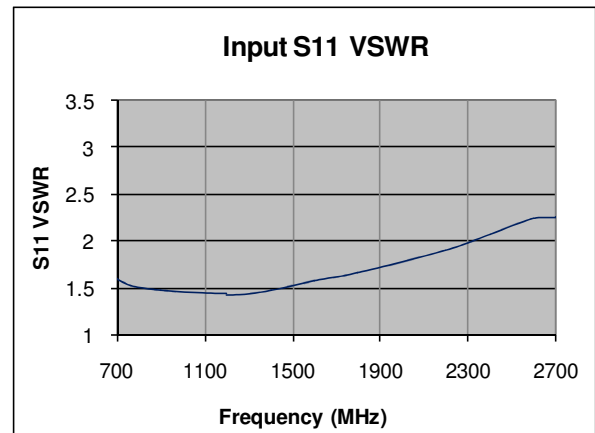
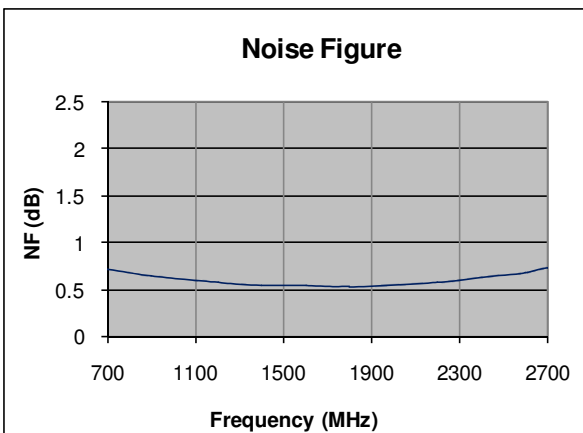
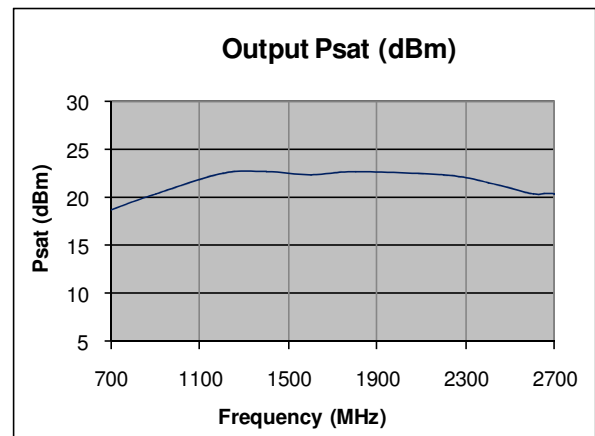
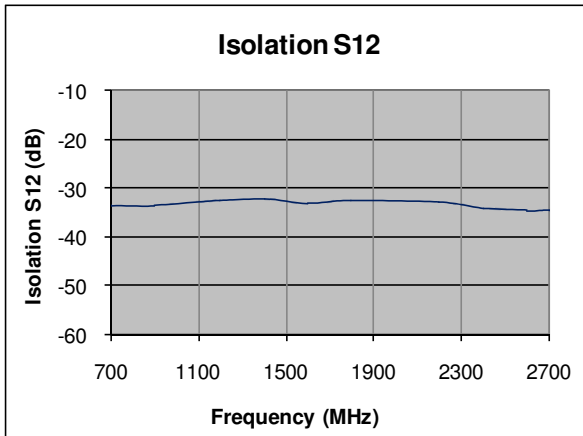
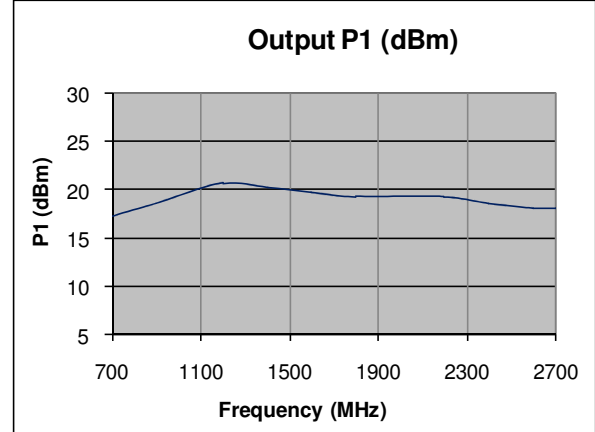
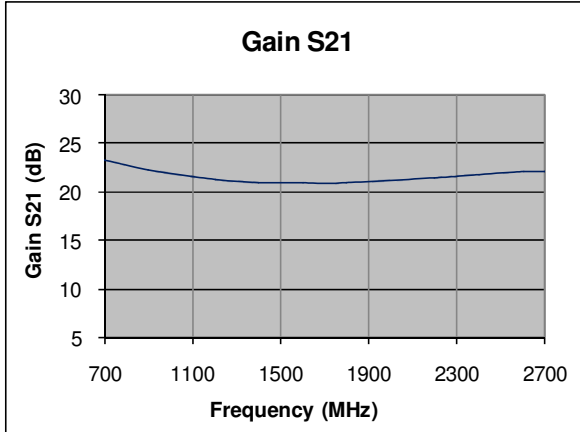
Electrical Specifications @+25°C, Z_{in}=Z_{out}=50 Ω, V_{supply} = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	700		2700
Gain (S ₂₁) f = 700MHz	dB		23.0	
f = 1700MHz	dB		21.0	
f = 2700MHz	dB		22.0	
Gain Variation Over Temperature	dB/°C		0.014	0.025
Output Power P _{1dB}	dBm		+18	
Saturated Output Power P _{Sat}	dBm		+21	
Output Third Order Intercept IP3	dBm		+35	
Noise Figure @1700MHz	dB		0.6	0.8
Reverse Isolation(S ₁₂) @1700MHz	dB		-33	
VSWR-Input (S ₁₁)	ratio:1	1.5 @700MHz	1.7 @1700MHz	2.2 @2700MHz
VSWR-Output (S ₂₂)	(unitless)	1.3 @700MHz	1.1 @1700MHz	1.2 @2700MHz
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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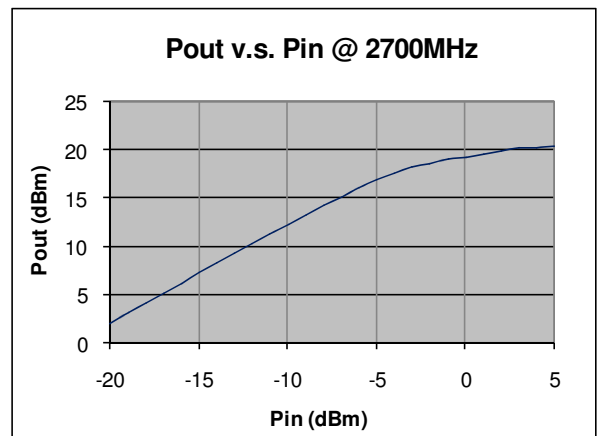
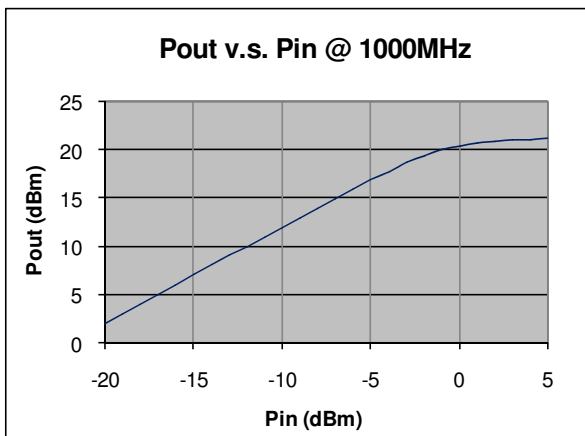
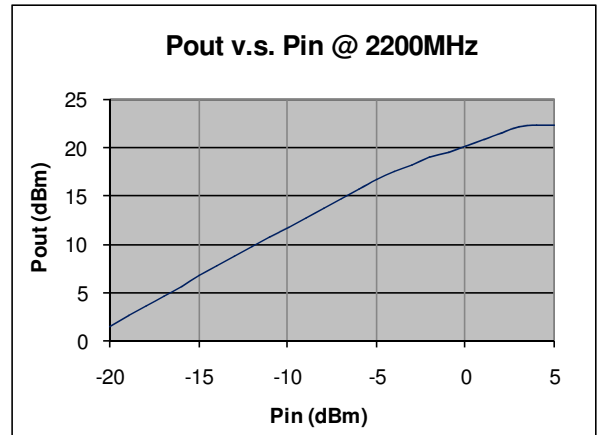
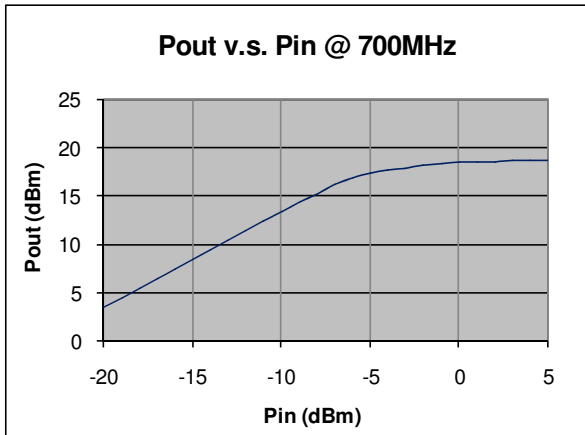
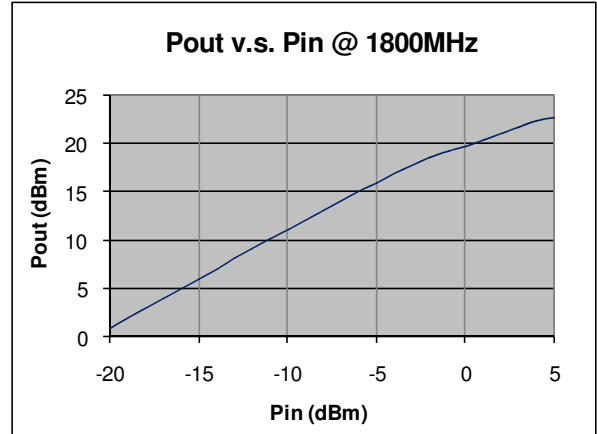
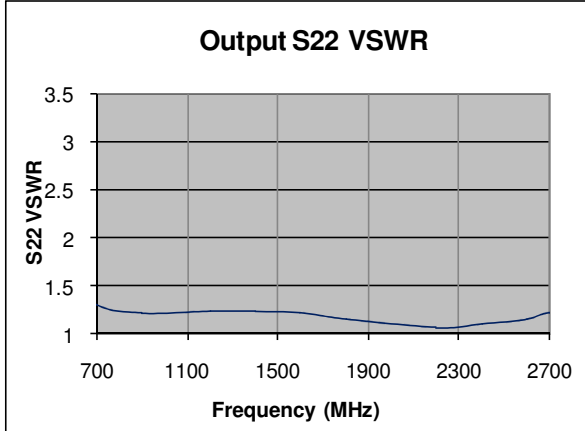
Typical Performance @+25 °C



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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

