

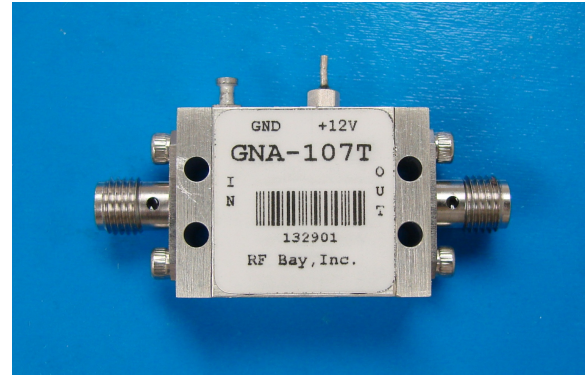
GNA Series

600 – 1200MHz Low Noise Amplifier

Features

- Frequency Range: 600–1200MHz
- Gain: 17dB
- P_{1dB} : +20dBm
- IP3: +33dBm
- Noise Figure: 0.8dB (typ.)
- DC Power: 12V @ 50mA
- SMA-female connectorized

Photo



Description

GNA-107T is a high performance Microwave Low Noise (& Driver) Amplifier, with standard frequency range of 600MHz to 1200MHz.

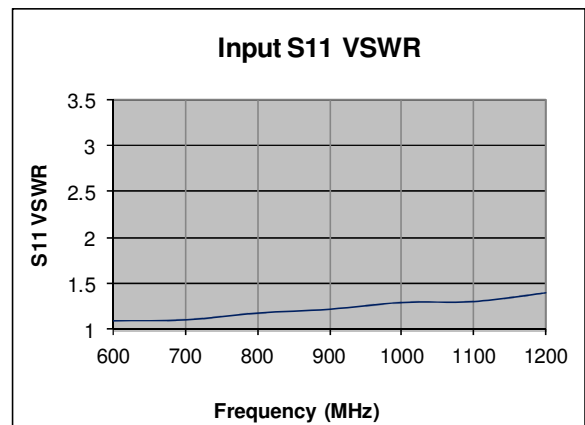
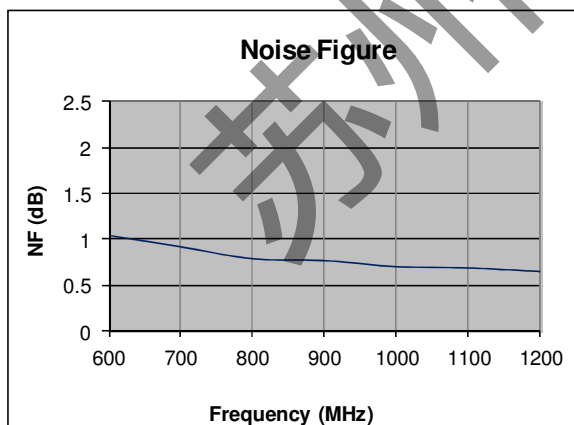
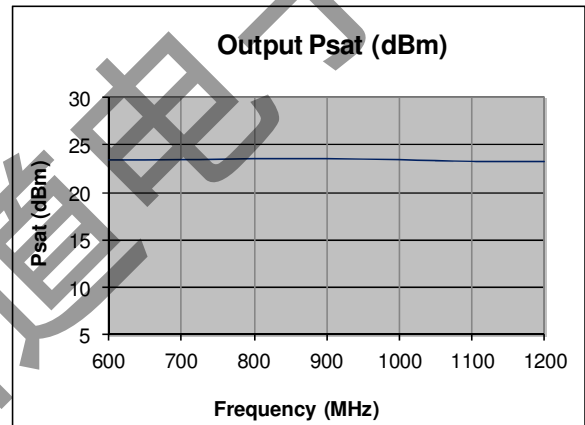
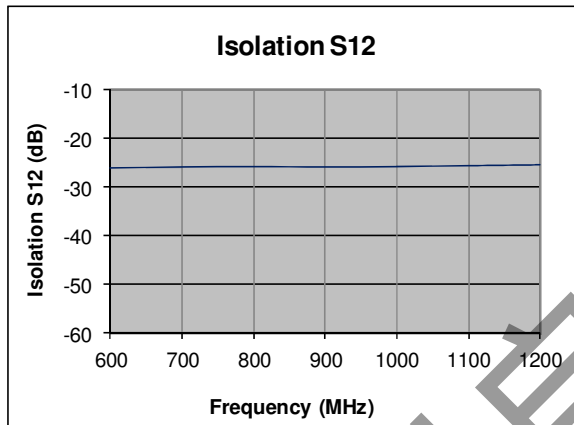
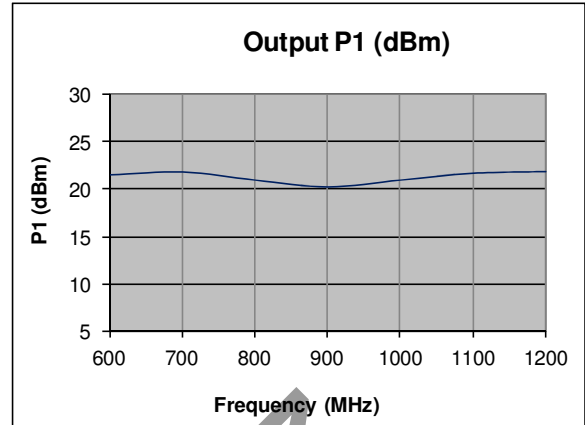
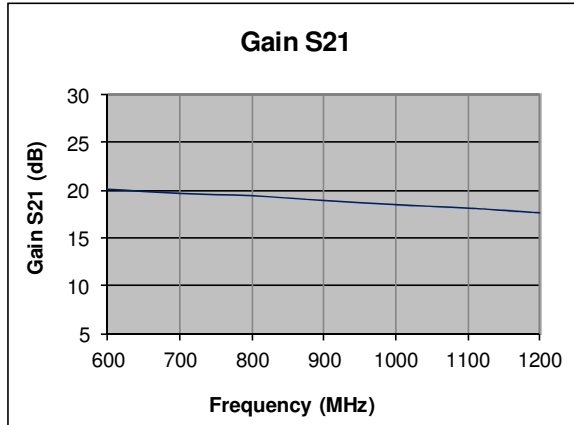
Electrical Specifications @+25 °C, $Z_{in}=Z_{out}=50$ Ohm, $V_{supply} = +12VDC$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	600		1200
Gain (S21) f = 600MHz	dB		20.0	
f = 900MHz	dB	17.0	19.0	
f = 1200MHz	dB		17.5	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P_{1dB}	dBm		+20	
Saturated Output Power P_{Sat}	dBm		+23	
Output Third Order Intercept IP3	dBm	+30	+33	
Noise Figure @900MHz	dB		0.8	1.0
Reverse Isolation (S12) @900MHz	dB		-25	
VSWR-Input (S11)	ratio:1	1.1@600MHz	1.2@900MHz	1.4@1200MHz
VSWR-Output (S22)	(unitless)	1.1@600MHz	1.2@900MHz	1.4@1200MHz
DC Power Supply - voltage	V	9	12	15
DC Power Supply - current	mA		50	95
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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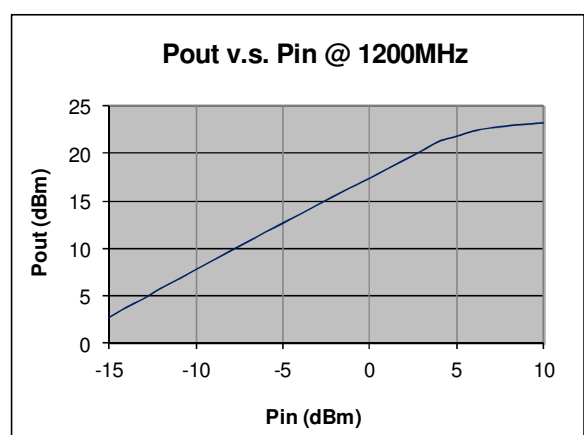
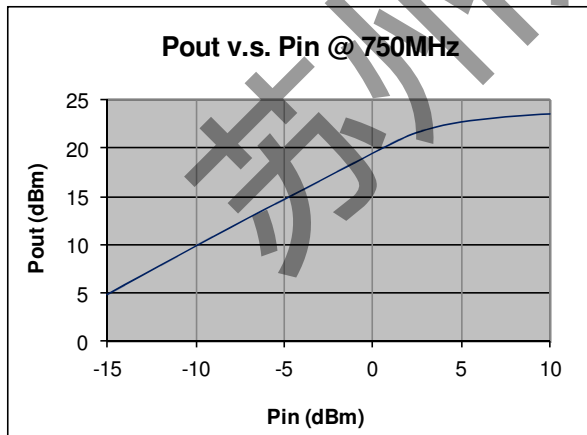
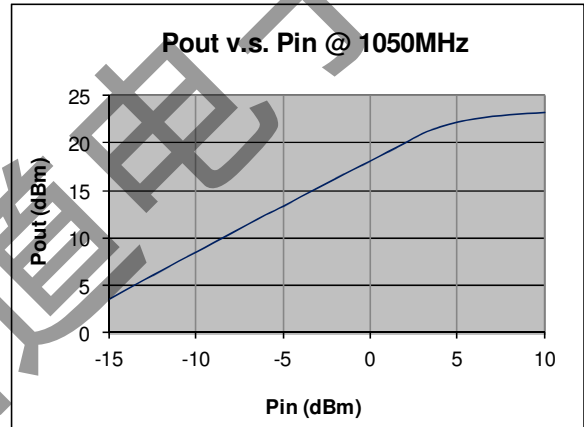
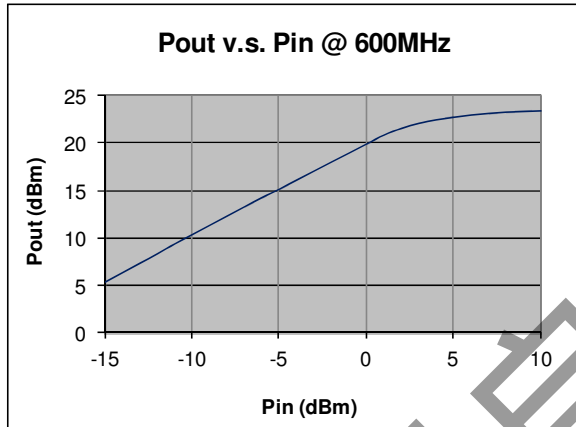
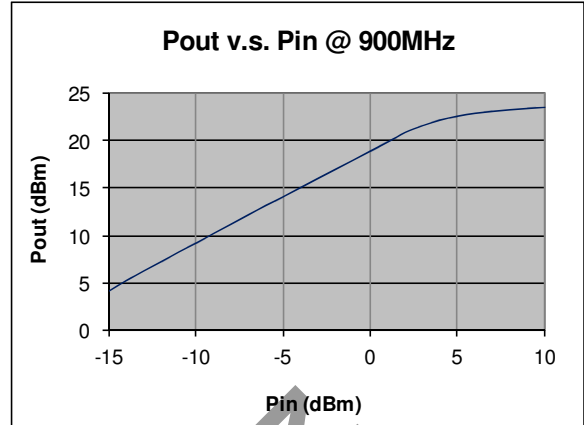
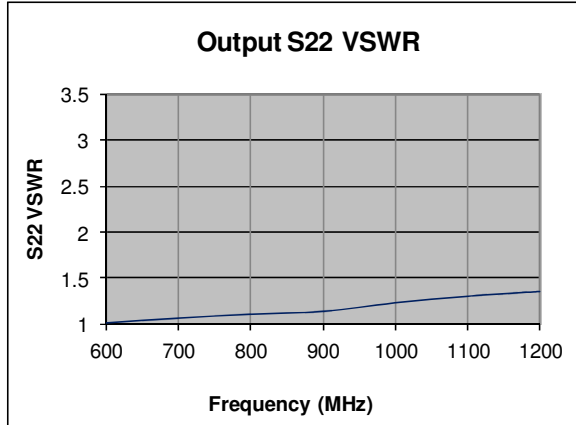
Typical Performance @+25 °C



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Typical Performance @+25 °C



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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Supply Voltage (Survival)	+24V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline

