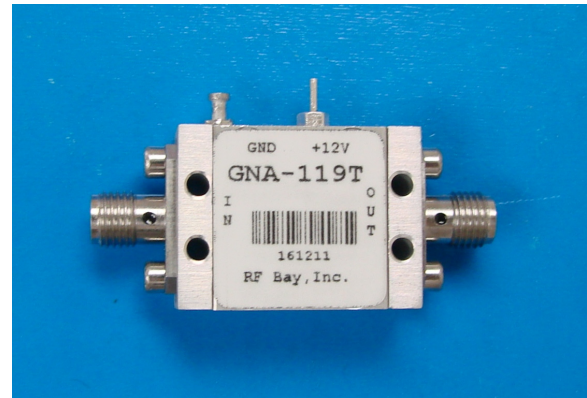


GNA Series**1000 – 4000MHz Low Noise Amplifier****Features**

- Frequency Range:1000–4000MHz
- Gain: 18dB
- P_{1dB}: +20dBm
- IP3: +39dBm
- Noise Figure: 0.8dB (typ.)
- DC Power: 12V @ 110mA
- SMA-female connectorized

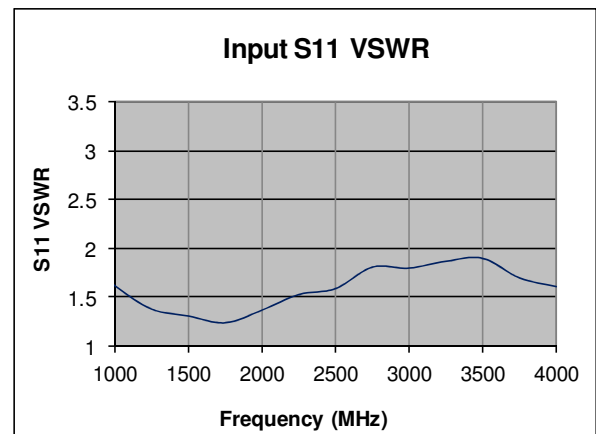
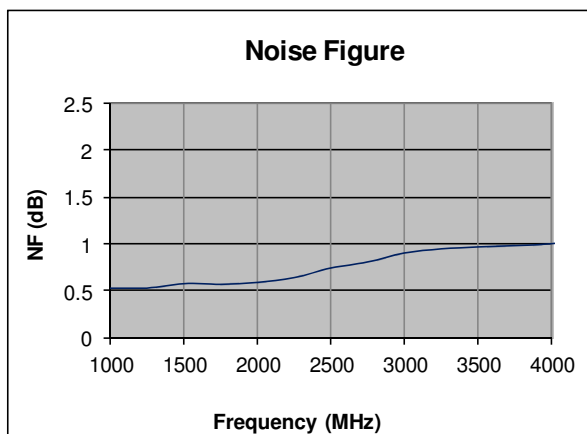
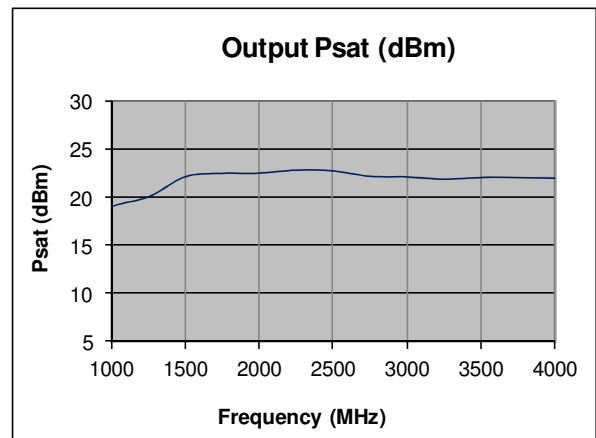
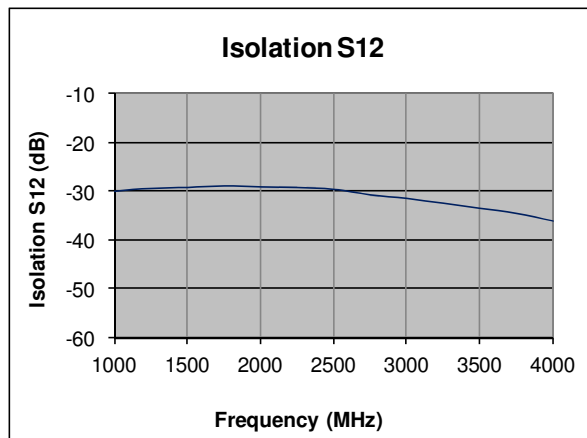
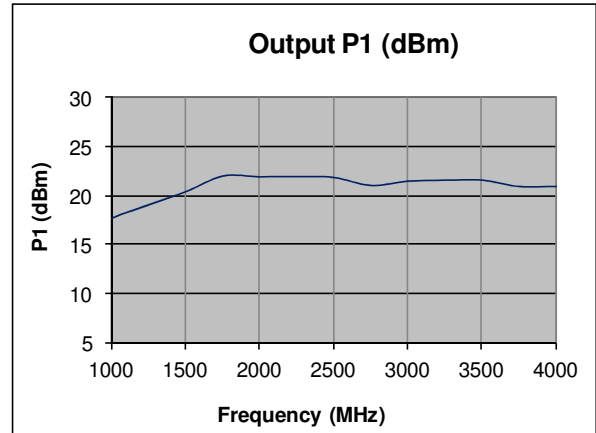
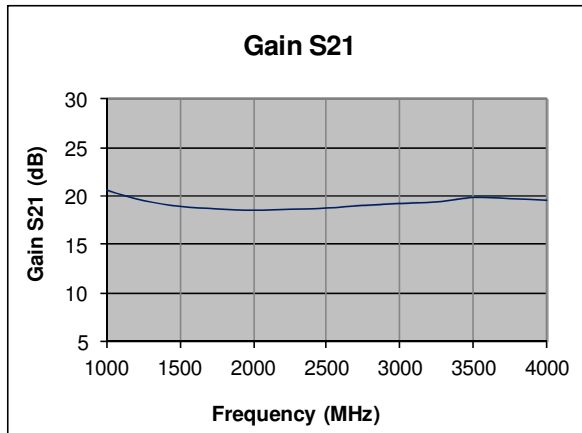
Photo**Description**

GNA-119T is a high performance Microwave Low Noise (& Driver) Amplifier, with standard frequency range of 1000MHz to 4000MHz.

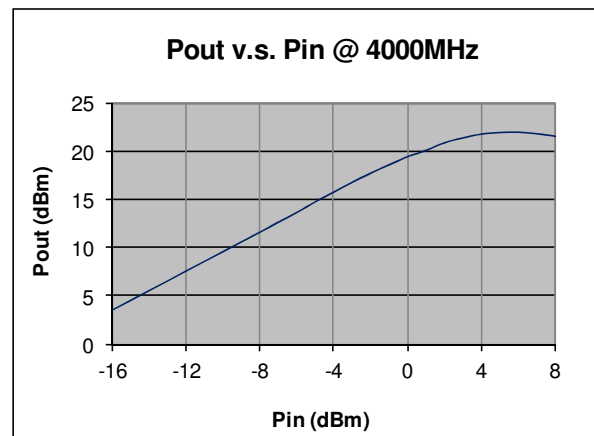
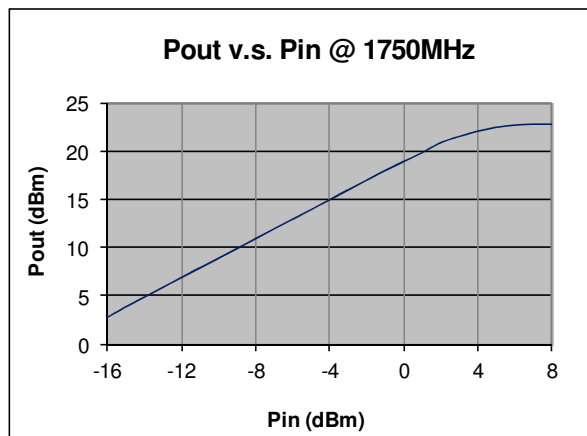
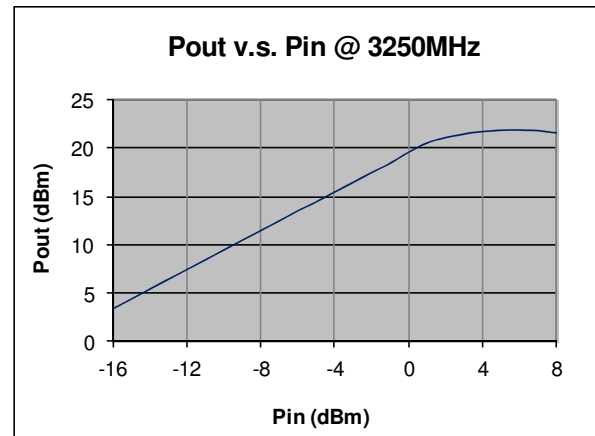
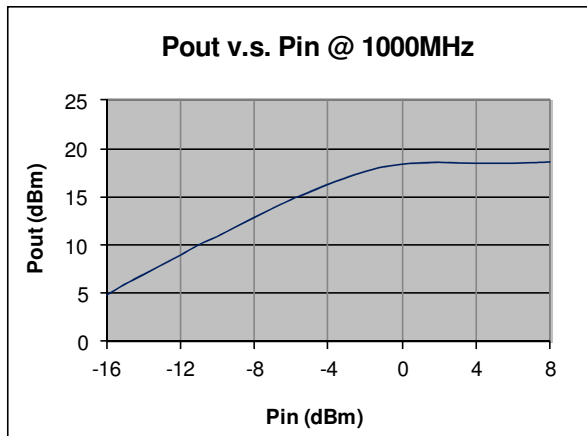
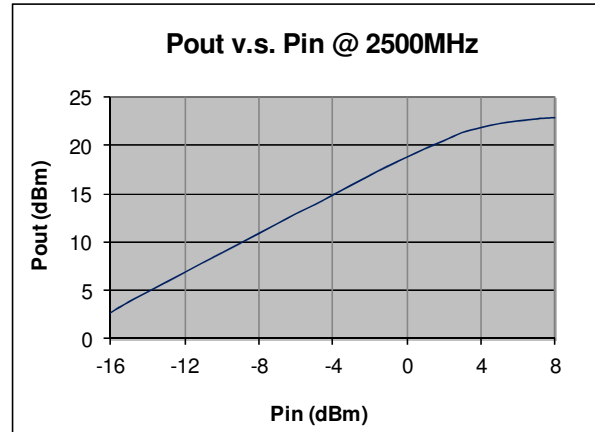
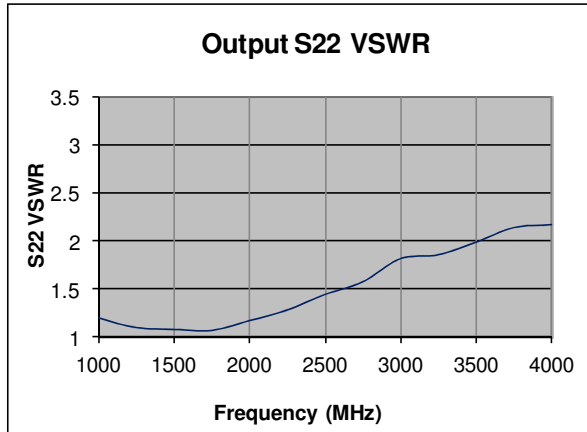
Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ohm, V_{supply} = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1000		4000
Gain (S21) f = 1000MHz	dB		20.5	
f = 2500MHz	dB		18.5	
f = 4000MHz	dB		19.5	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P _{1dB}	dBm		+20	
Saturated Output Power P _{Sat}	dBm		+22	
Output Third Order Intercept IP3	dBm	+39	+41	
Noise Figure @2500MHz	dB		0.8	1.0
Reverse Isolation (S12) @2500MHz	dB		-29	
VSWR-Input (S11)	ratio:1	1.6@1000MHz	1.6@2500MHz	1.6@4000MHz
VSWR-Output (S22)	(unitless)	1.2@1000MHz	1.5@2500MHz	2.2@4000MHz
DC Power Supply - voltage	V	9	12	15
DC Power Supply - current	mA		110	130
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)		

Typical Performance @+25 °C



Typical Performance @+25 °C



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

