

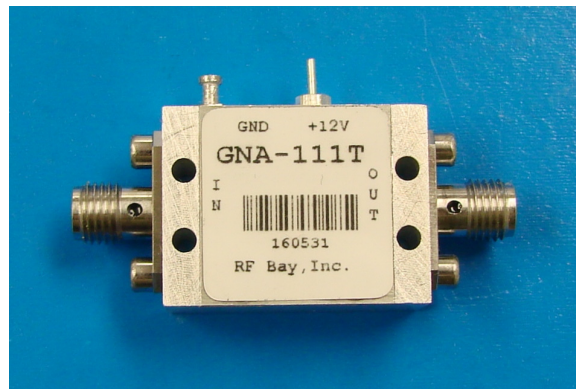
GNA Series

1000-3500MHz Low Noise Amplifier

Features

- Frequency Range: 1000-3500MHz
- Gain: 20dB
- P_{1dB} : +17dBm
- IP3: +34dBm
- Noise Figure: 0.6dB
- DC Power: +9V to +15V @ 65mA
- Internally Voltage Regulated
- RF Connector: SMA-Female

Photo



Description

GNA-111T is a high performance Microwave Low Noise Amplifier, with standard frequency range of 1000MHz to 3500MHz.

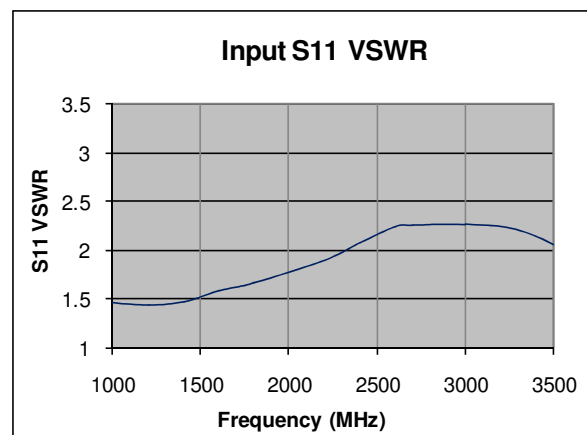
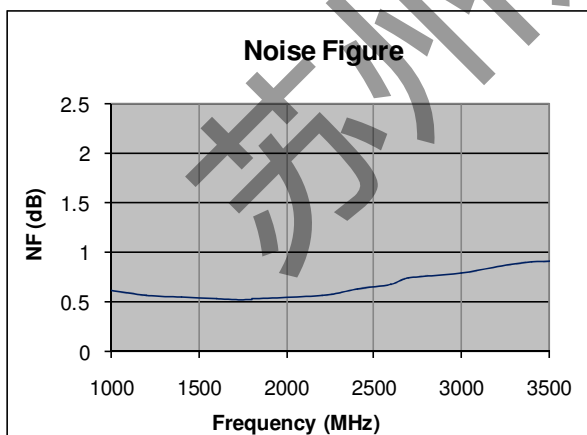
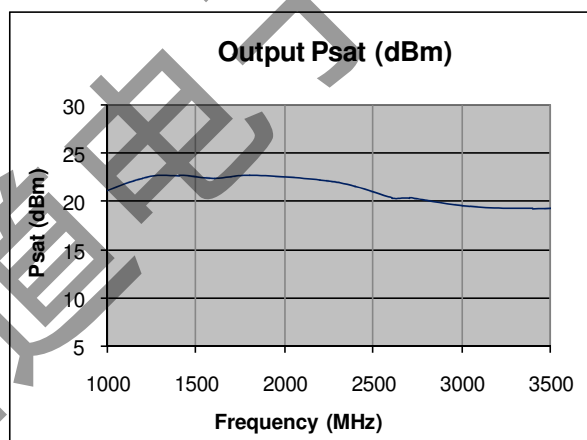
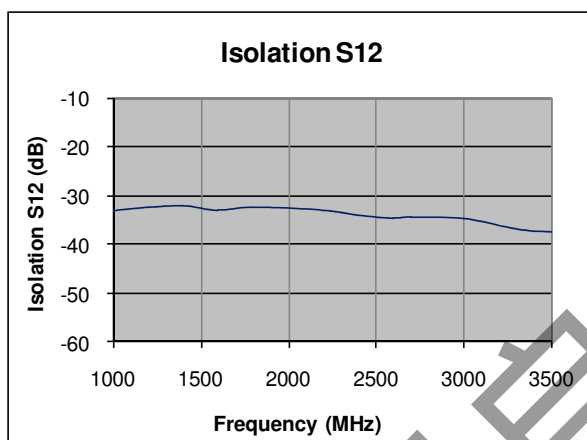
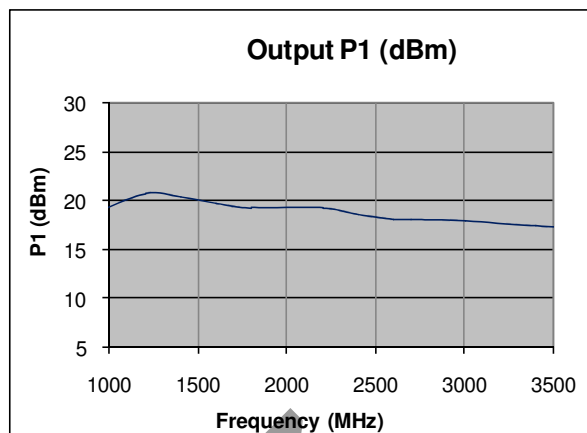
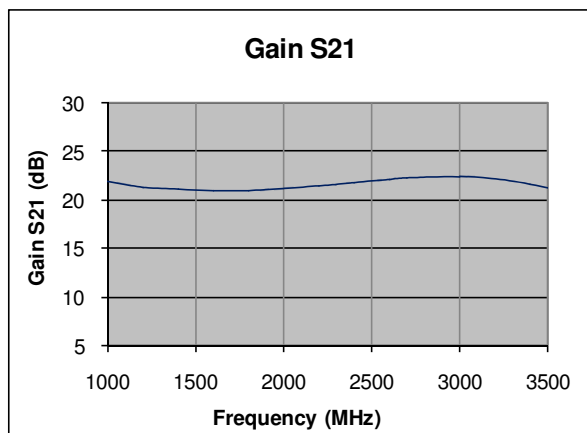
Electrical Specifications @+25°C, $Z_{in}=Z_{out}=50\ \Omega$, $V_{supply} = +12VDC$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1000		3500
Gain (S21) f = 1000MHz	dB		21.8	
f = 2250MHz	dB		21.5	
f = 3500MHz	dB		22.0	
Gain Variation Over Temperature	dB/°C		0.014	0.025
Output Power P_{1dB}	dBm		+17	
Saturated Output Power P_{Sat}	dBm		+20	
Output Third Order Intercept IP3	dBm		+34	
Noise Figure @2250MHz	dB		0.6	0.8
Reverse Isolation(S12) @2250MHz	dB		-33	
VSWR-Input (S11)	ratio:1	1.4 @1000MHz	1.9 @2250MHz	2.0 @3500MHz
VSWR-Output (S22)	(unitless)	1.2 @1000MHz	1.1 @2250MHz	1.4 @3500MHz
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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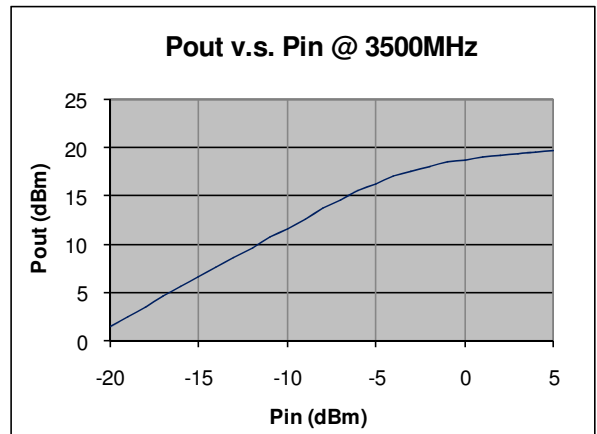
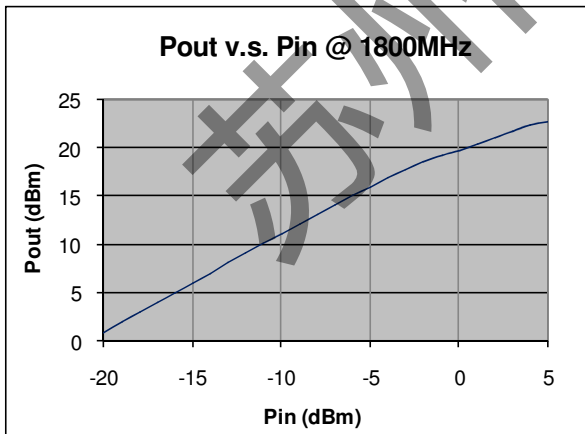
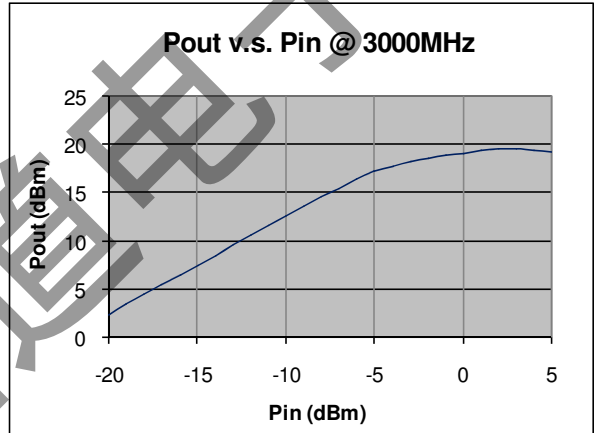
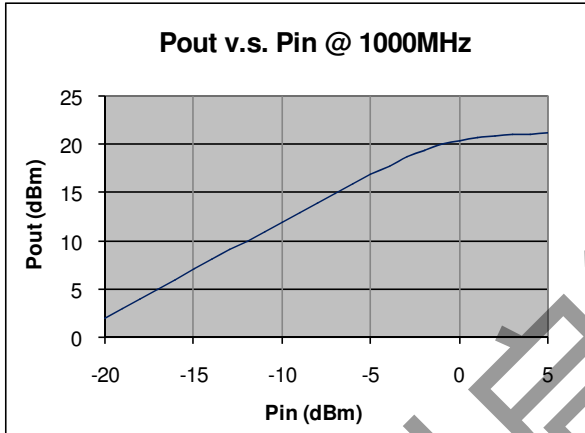
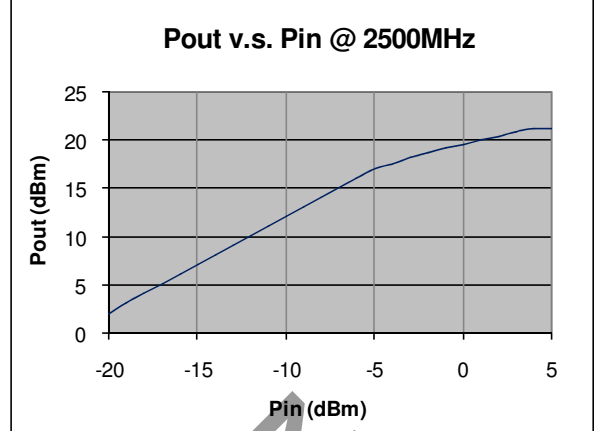
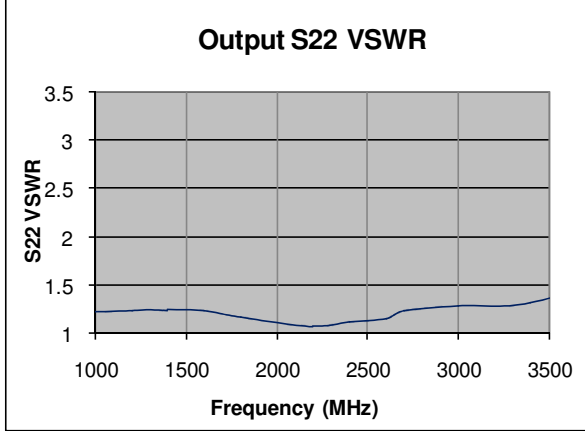
Typical Performance @+25 °C



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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

