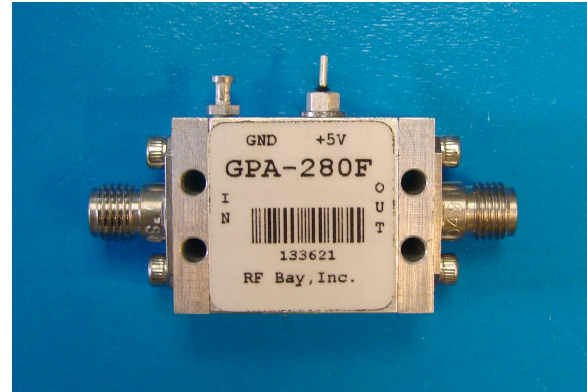


GPA Series**20 – 36GHz RF Amplifier****Features**

- Frequency Range: 20-36GHz
- Gain: 24dB
- P_{1dB}: +11dBm
- IP3: +21dBm
- Noise Figure: 3dB (typ.)
- DC Power: 5V @ 80mA
- 2.92mm K-female connectorized

Photo**Description**

GPA-280F is a high performance Microwave Driver Amplifier, with standard frequency range of 20GHz to 36GHz.

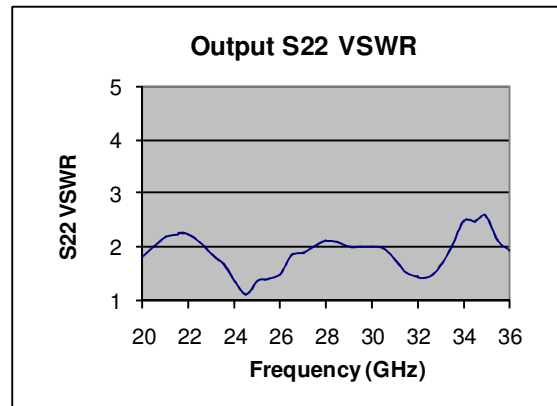
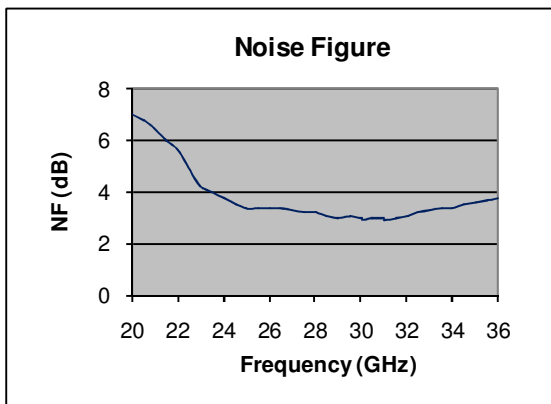
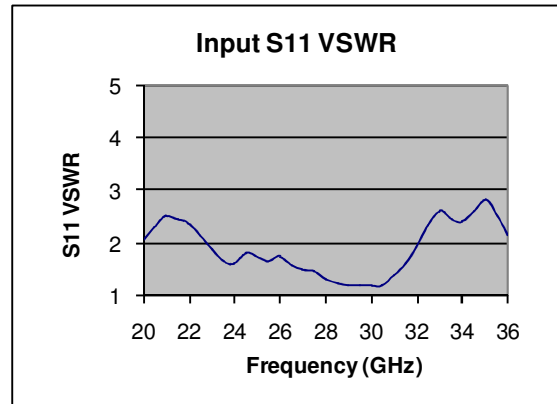
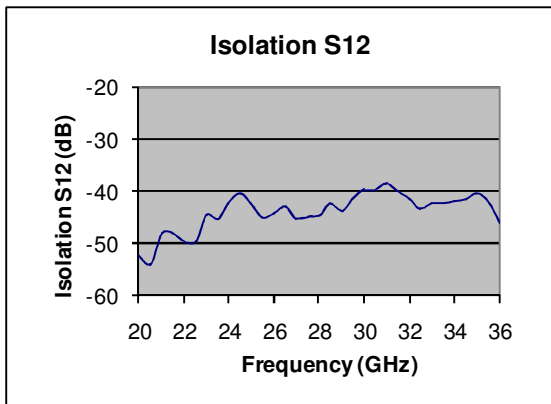
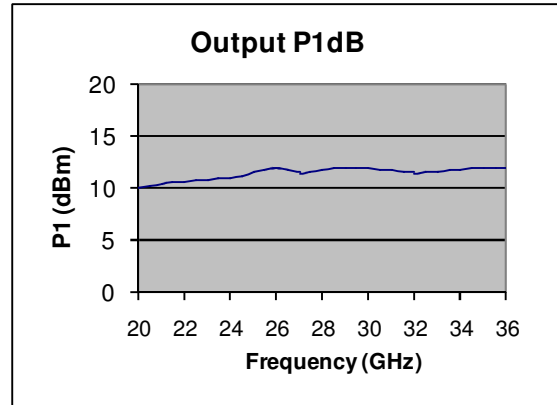
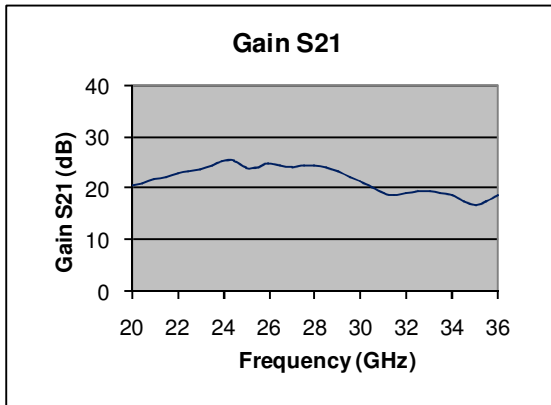
Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ohm, V_{supply} = +5VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	20		36
Gain (S ₂₁) f = 20GHz	dB		20.0	
f = 28GHz	dB		24.0	
f = 36GHz	dB		19.0	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P _{1dB}	dBm	+10	+11	
Saturated Output Power P _{Sat}	dBm		+13	
Output Third Order Intercept IP3	dBm	+20	+21	
Noise Figure @28GHz	dB		3.3	3.7
Reverse Isolation (S ₁₂) @28GHz	dB		-44	
VSWR-Input (S ₁₁)	ratio:1	2.0 @ 20GHz	1.4 @ 28GHz	2.2 @ 36GHz
VSWR-Output (S ₂₂)	(unitless)	1.8 @ 20GHz	2.1 @ 28GHz	2.0 @ 36GHz
DC Power Supply - voltage	V	4.5	5.0	5.5
DC Power Supply - current	mA		80	90
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)		

GPA Series

20 – 36GHz RF Amplifier

Typical Performance @+25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+5dBm
Supply Voltage (Survival)	+16V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline

