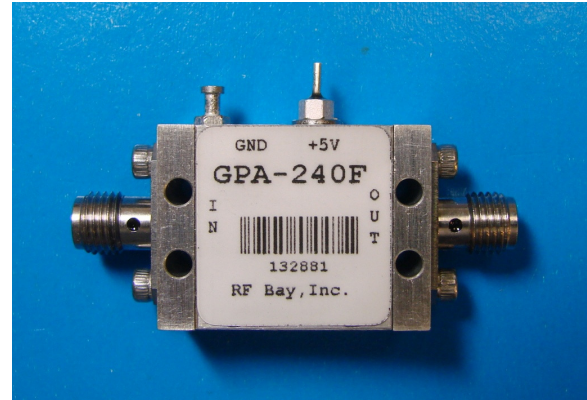


GPA Series**5 – 20GHz RF Amplifier****Features**

- Frequency Range: 5-20GHz
- Gain: 10dB
- P_{1dB}: +17dBm
- IP3: +25dBm
- Noise Figure: 6.5dB (typ.)
- DC Power: 5V @ 130mA
- SMA-female connectorized

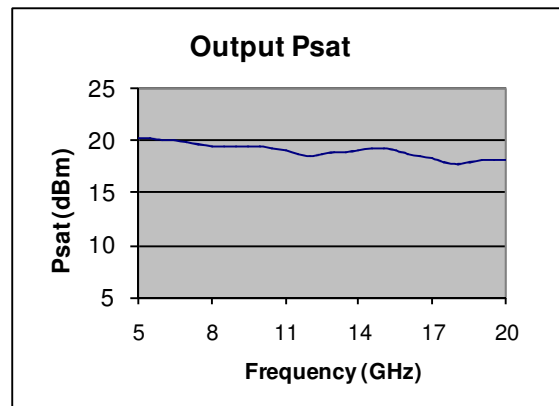
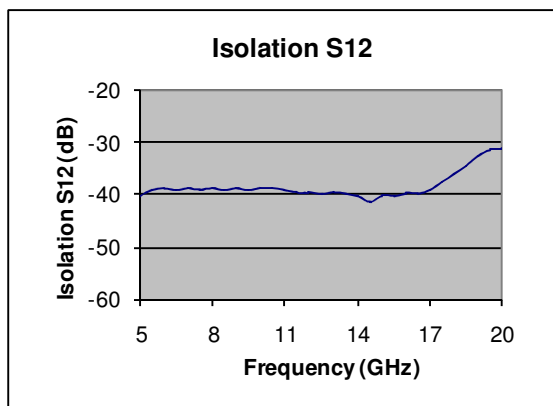
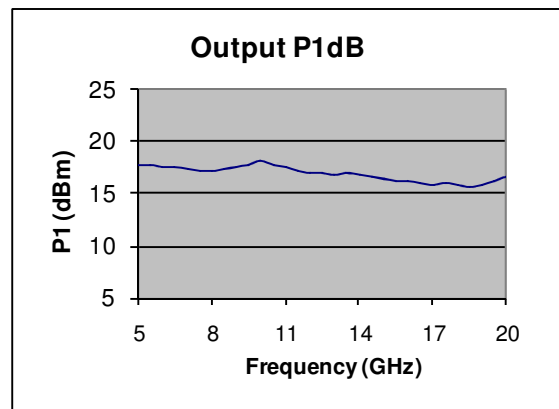
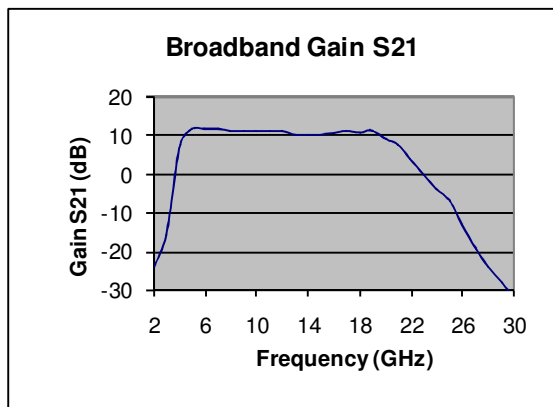
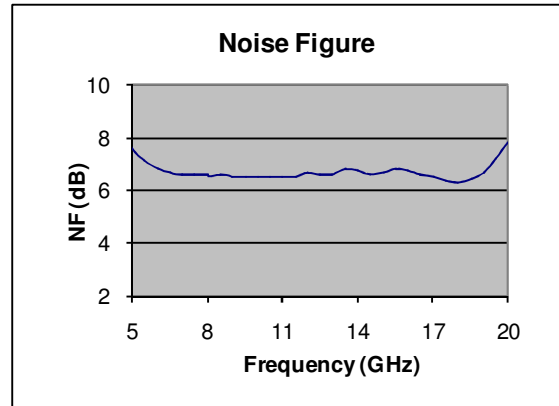
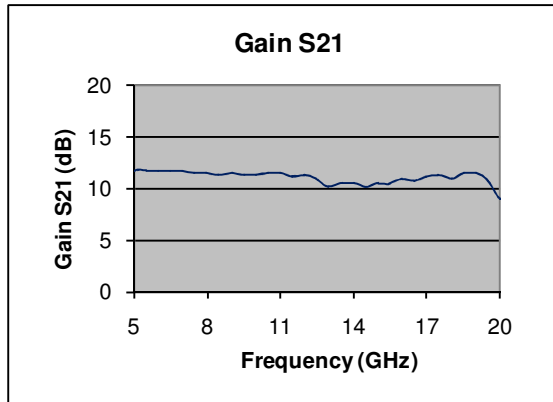
Photo**Description**

GPA-240F is a high performance RF Microwave Driver Amplifier, with standard frequency range of 5GHz to 20GHz.

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

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	5		20
Gain (S ₂₁) f = 5GHz	dB		11.5	
f = 12GHz	dB	10.0	11.0	
f = 20GHz	dB		9.0	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P _{1dB}	dBm		+17	
Saturated Output Power P _{Sat}	dBm		+19	
Output Third Order Intercept IP3	dBm		+25	
Noise Figure @12GHz	dB		6.5	7.5
Reverse Isolation (S ₁₂) @12GHz	dB		-39	
VSWR-Input (S ₁₁)	ratio:1	1.6 @5GHz	1.3 @12GHz	2.2 @20GHz
VSWR-Output (S ₂₂)	(unitless)	1.1 @5GHz	1.3 @12GHz	1.8 @20GHz
DC Power Supply - voltage	V	4.5	5.0	5.5
DC Power Supply - current	mA		130	150
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)		

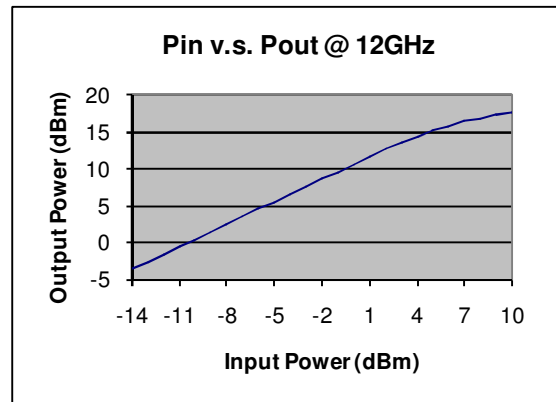
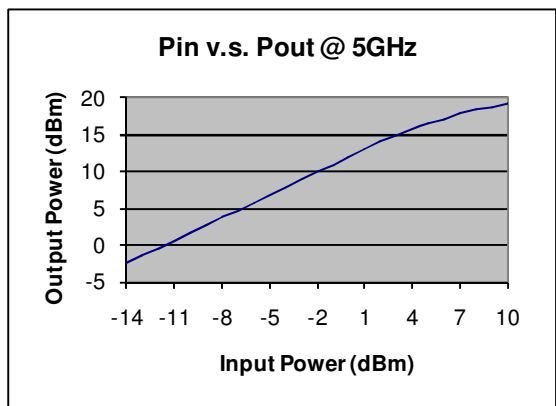
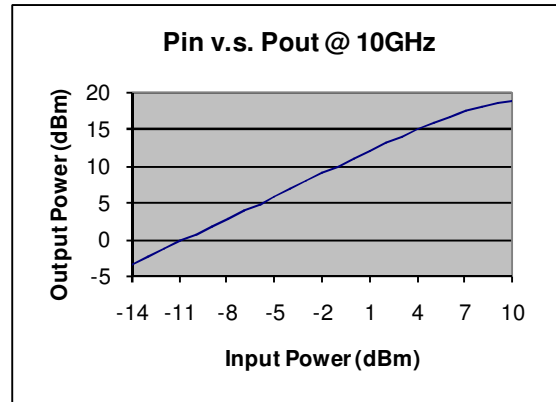
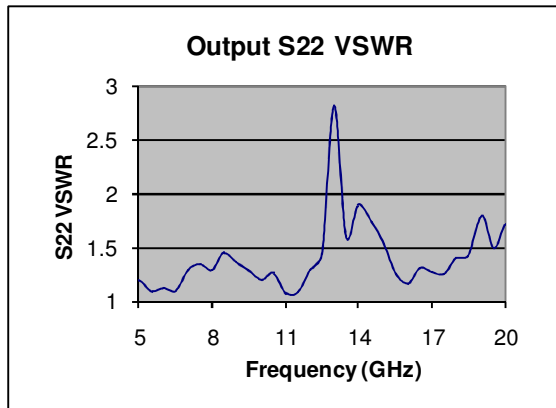
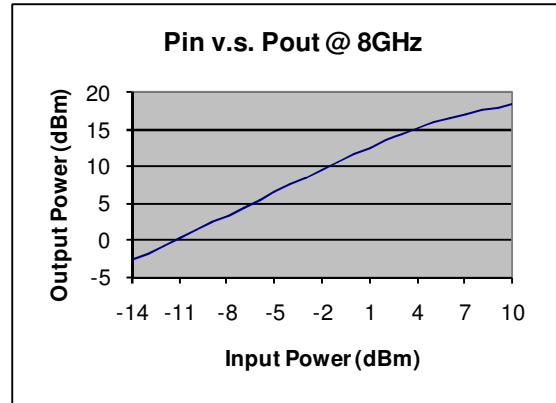
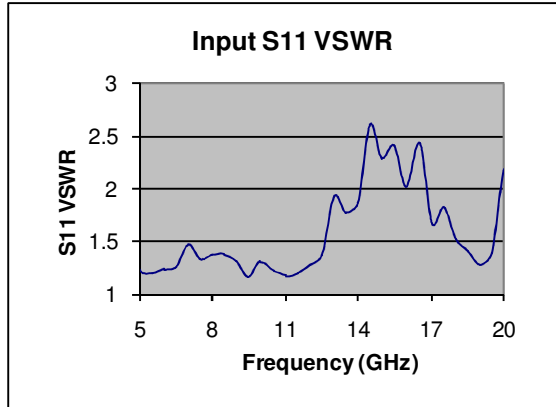
Typical Performance @+25 °C



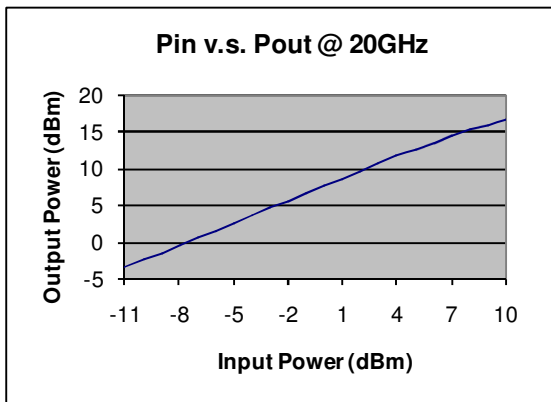
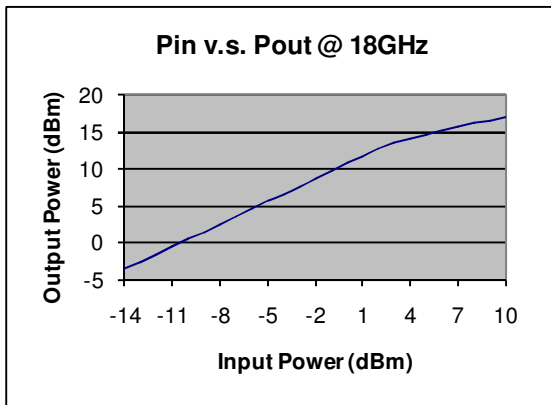
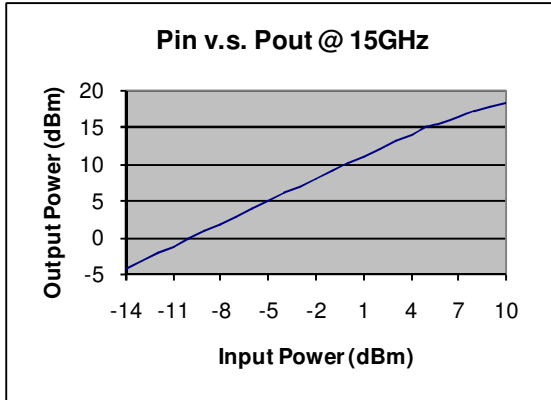
GPA Series

5 – 20GHz RF Amplifier

Typical Performance @+25 °C



Typical Performance @+25 °C



GPA Series

5 – 20GHz RF Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Supply Voltage (Survival)	+16V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline

