

GPA Series

2 – 20GHz RF Driver Amplifier

Features

- Frequency Range: 2-20GHz
- Gain: 20dB
- P_{1dB}: +12dBm
- IP3: +26dBm
- Noise Figure: 6.5dB (typ.)
- DC Power: 5V @ 100mA
- SMA-female connectorized

Photo



Description

GPA-200F is a high performance Microwave RF Driver Amplifier, with standard frequency range of 2GHz to 20GHz.

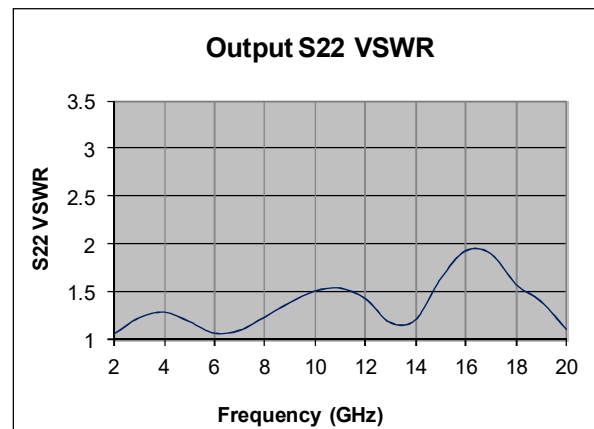
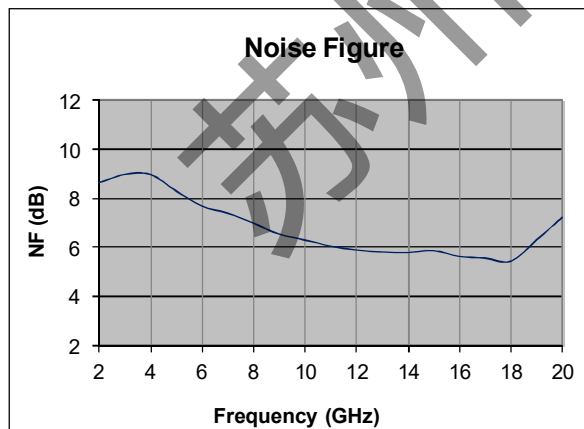
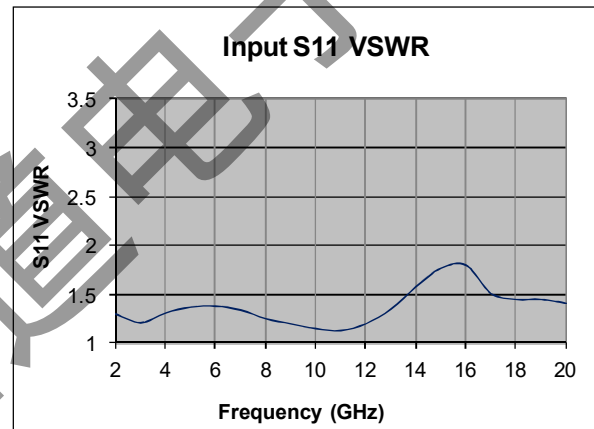
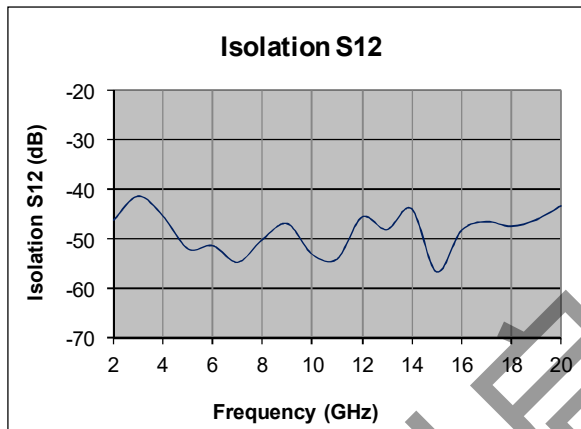
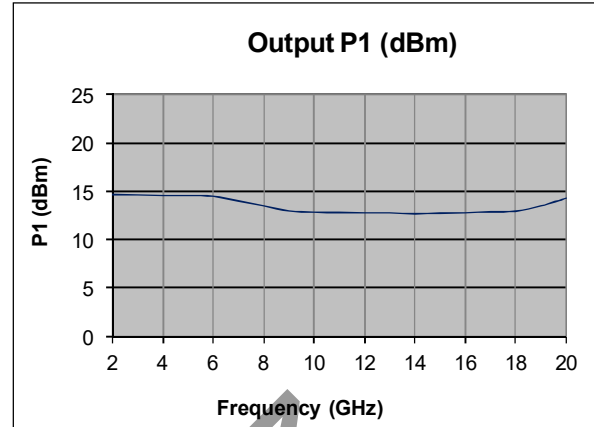
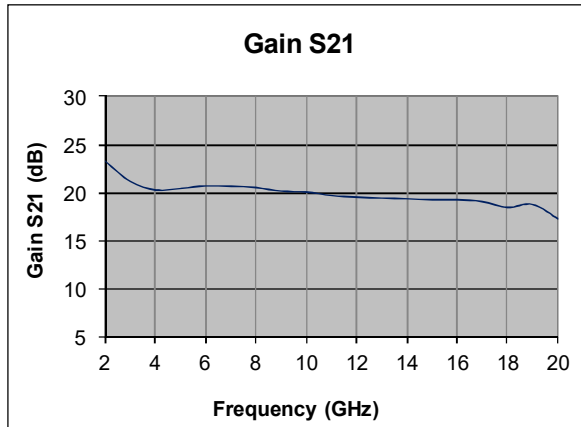
Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50Ω, V_{supply} = +5VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	2		20
Gain (S ₂₁) f = 2GHz	dB		23.0	
f = 10GHz	dB		20.0	
f = 20GHz	dB		17.0	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P _{1dB}	dBm		+12	
Saturated Output Power P _{Sat}	dBm		+15	
Output Third Order Intercept IP3	dBm		+26	
Noise Figure @ 10GHz	dB		6.5	
Reverse Isolation (S ₁₂) @ 10GHz	dB		-50	
VSWR-Input (S ₁₁)	ratio:1	1.3@2GHz	1.2@10GHz	1.4@20GHz
VSWR-Output (S ₂₂)	(unitless)	1.1@2GHz	1.5@10GHz	1.1@20GHz
DC Power Supply - voltage	V	4.8	5.0	5.2
DC Power Supply - current	mA		100	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)		

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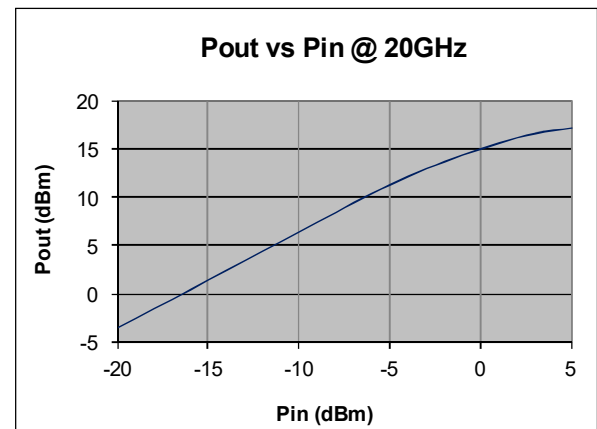
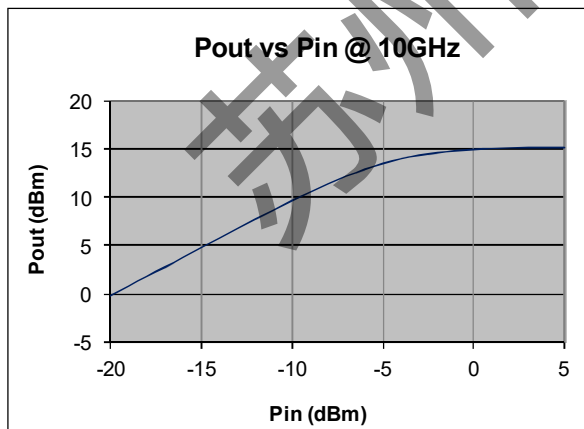
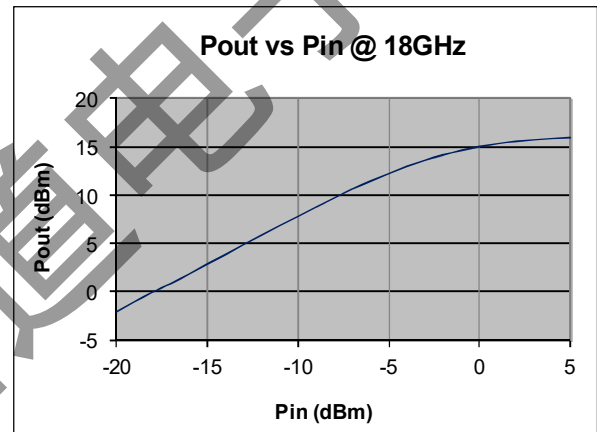
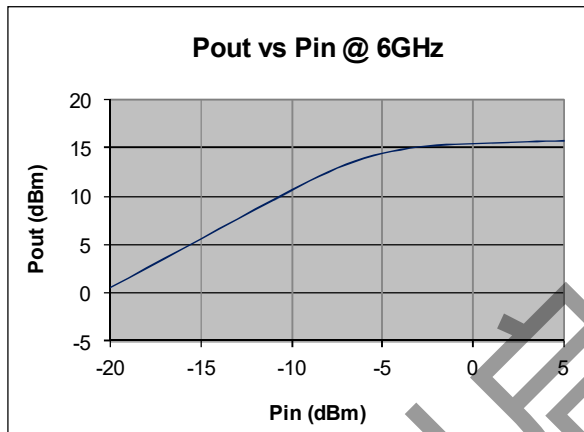
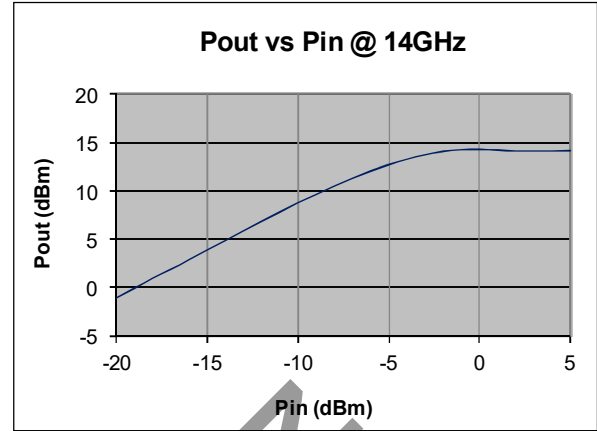
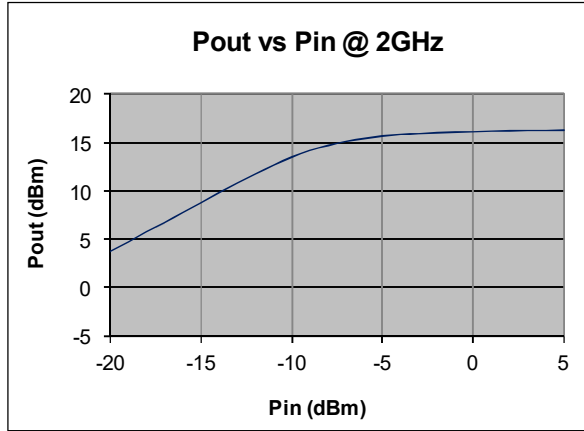
Typical Performance @+25 °C



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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Supply Voltage (Survival)	+15V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline

