

GPA Series

8 – 16GHz RF Amplifier

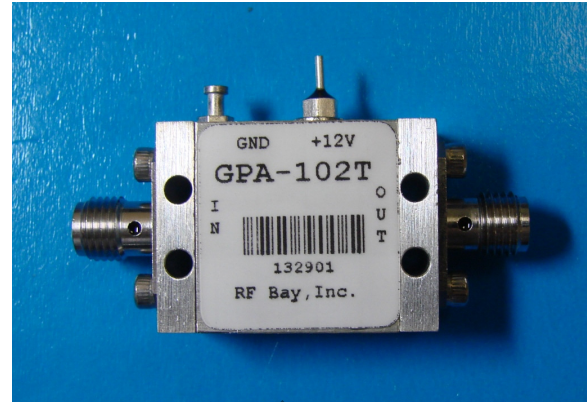
Features

- Frequency Range: 8-16GHz
- Gain: 13dB
- P_{1dB}: +16dBm
- IP3: +27dBm
- Noise Figure: 4.5dB (typ.)
- DC Power: 12V @ 45mA
- SMA-female connectorized

Description

GPA-102T is a high performance RF Microwave Driver Amplifier, with standard frequency range of 8GHz to 16GHz.

Photo



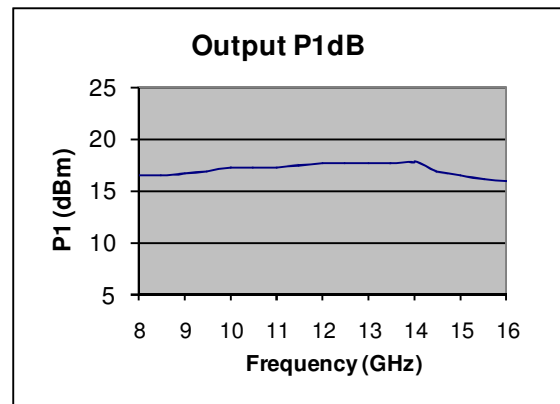
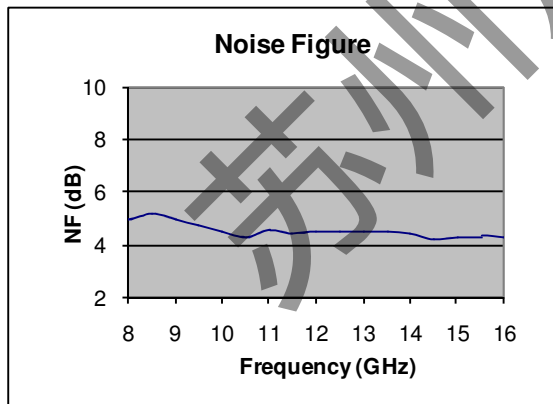
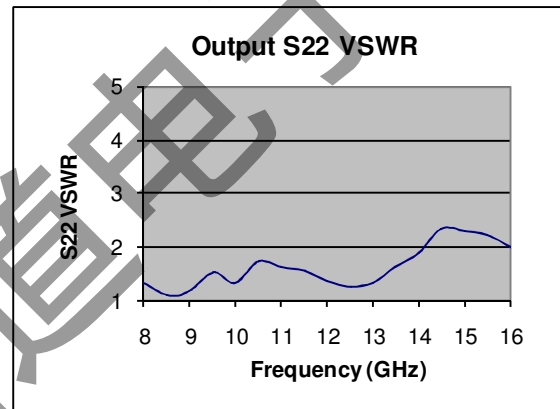
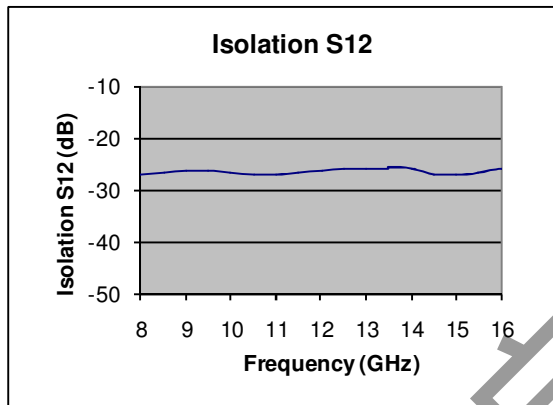
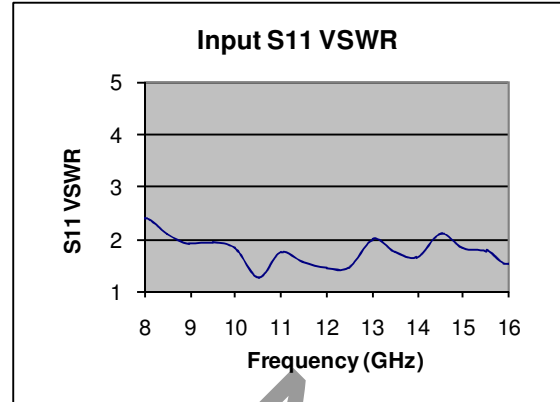
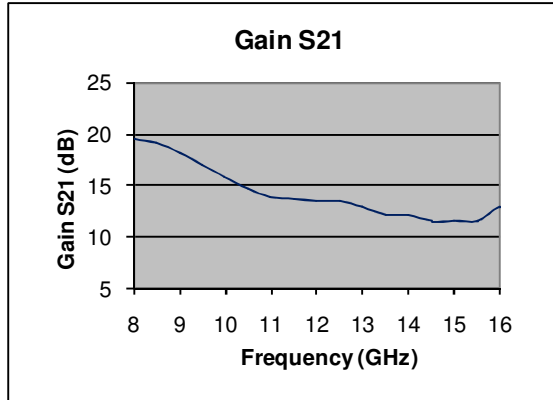
Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ohm, V_{supply} = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	8		16
Gain (S ₂₁) f = 8GHz	dB		18.0	
f = 12GHz	dB	12.5	13.5	
f = 16GHz	dB		13.0	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P _{1dB}	dBm		+16	
Saturated Output Power P _{Sat}	dBm		+17.5	
Output Third Order Intercept IP3	dBm		+27	
Noise Figure @12GHz	dB		4.5	5.5
Reverse Isolation (S ₁₂) @12GHz	dB		-26	
VSWR-Input (S ₁₁)	ratio:1	2.4 @8GHz	1.5 @12GHz	1.5 @16GHz
VSWR-Output (S ₂₂)	(unitless)	1.4 @8GHz	1.4 @12GHz	2.0 @16GHz
DC Power Supply - voltage	V	11	12 or 15	18
DC Power Supply - current	mA		45	55
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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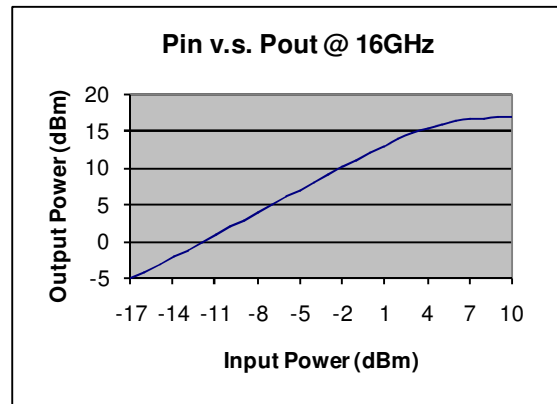
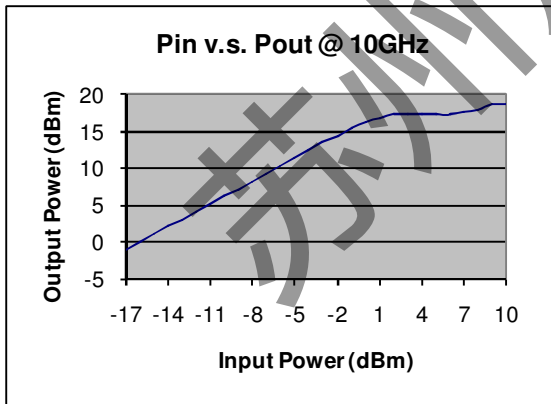
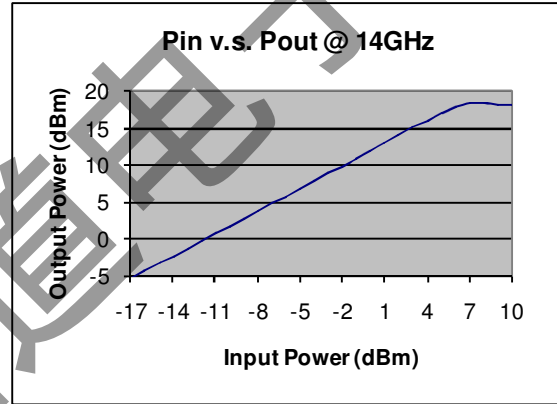
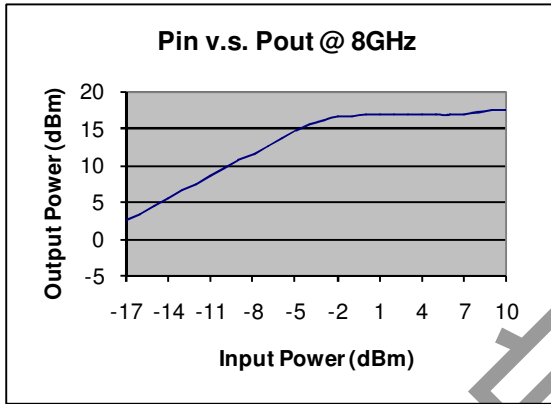
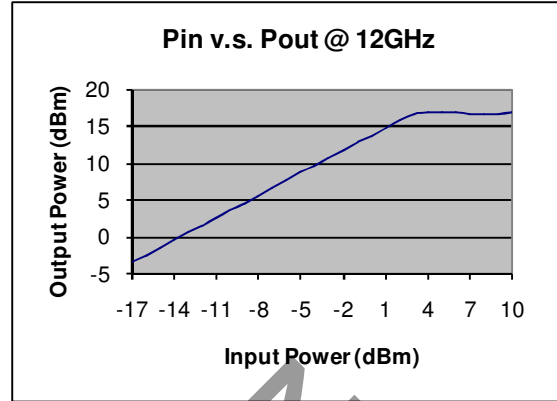
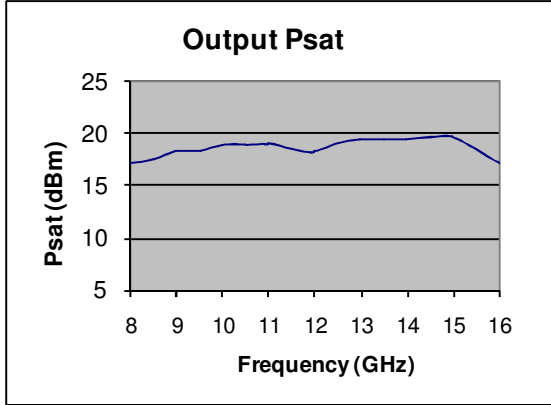
Typical Performance @+25 °C



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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+23dBm
Supply Voltage (Survival)	+25V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline

