

EPA Series

30 – 9000MHz RF Amplifier

Features

- Frequency Range: 30-9000MHz
- Gain: 40dB
- P_{1dB}: +14dBm
- OIP3: +26dBm
- Noise Figure: 5.3dB (typ.)
- DC Power: 12V to 15V @ 150mA
- SMA-female

Description

EPA-250T is a 40dB gain RF Amplifier, with frequency range of 30 MHz to 9000MHz.

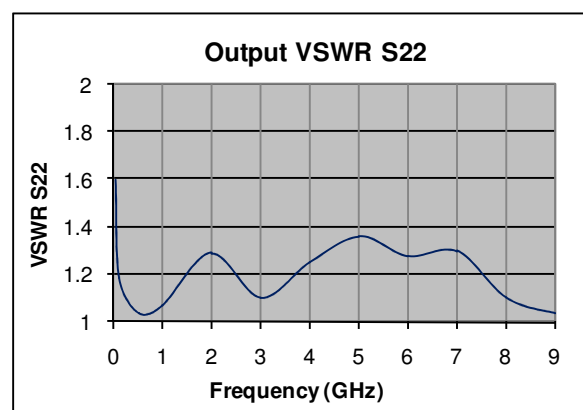
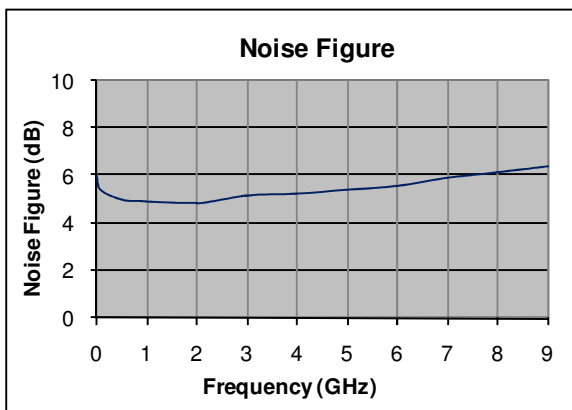
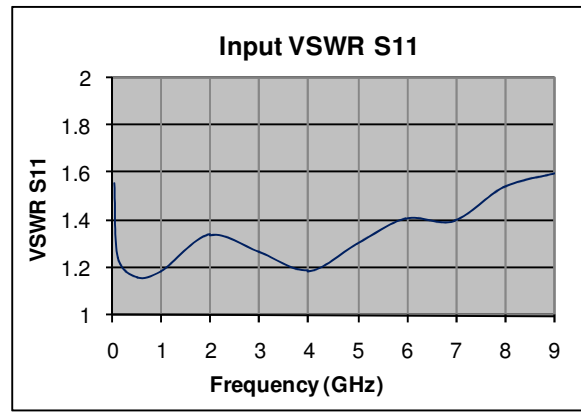
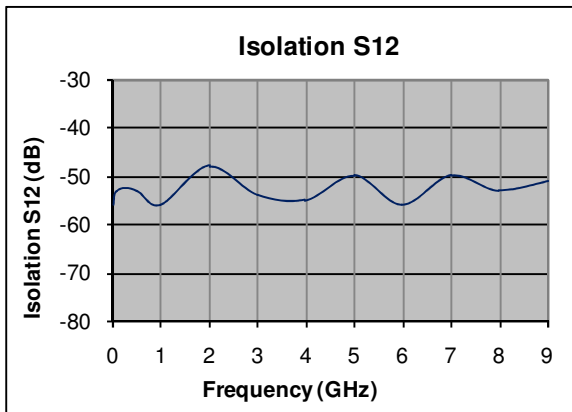
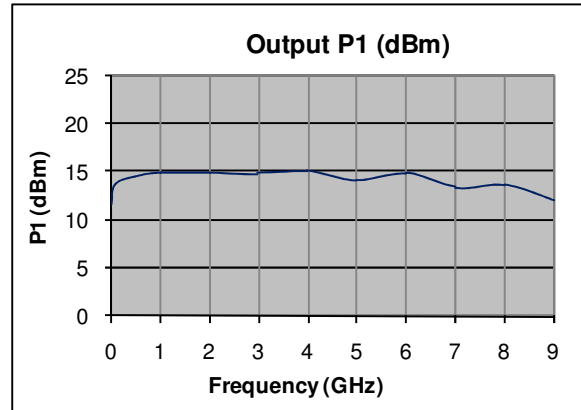
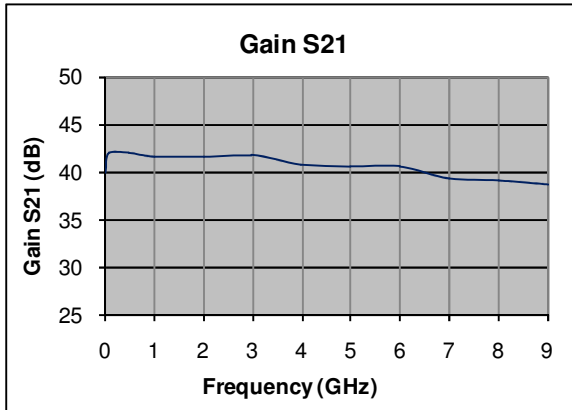
Photo



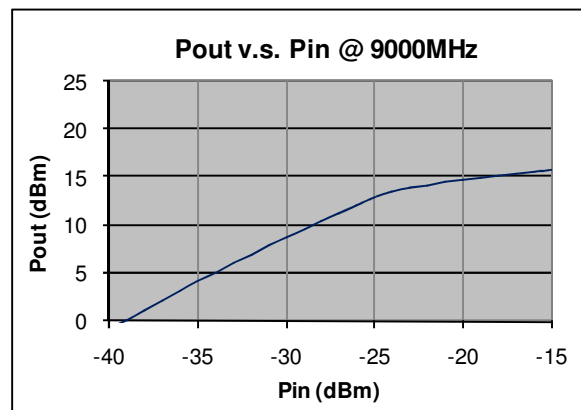
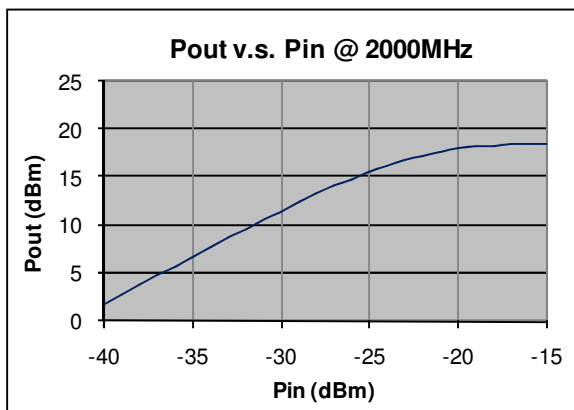
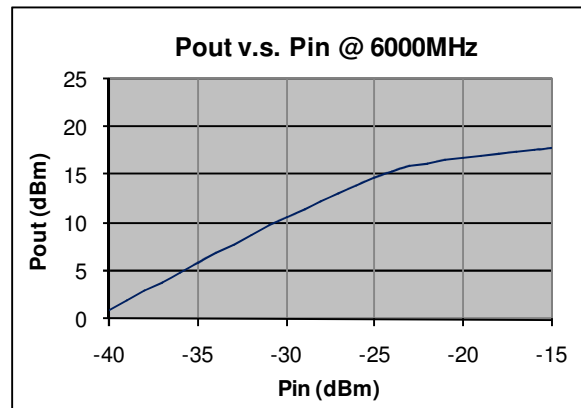
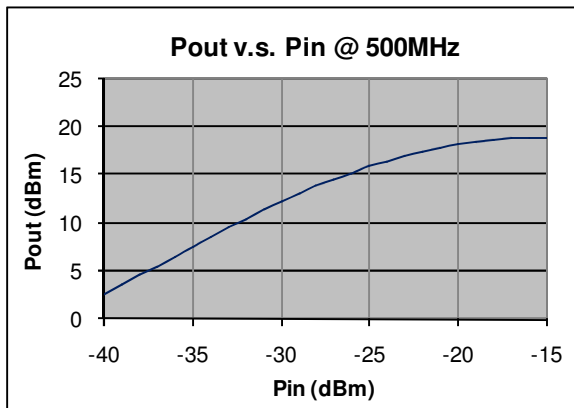
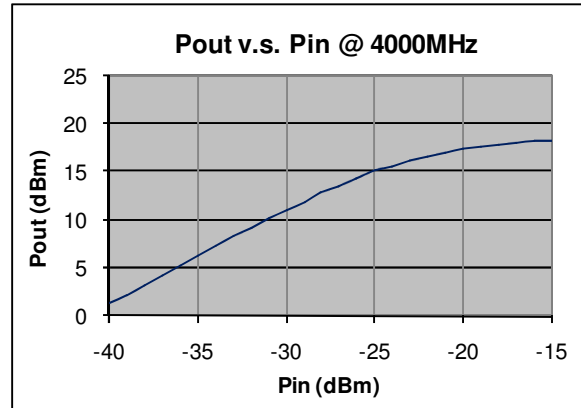
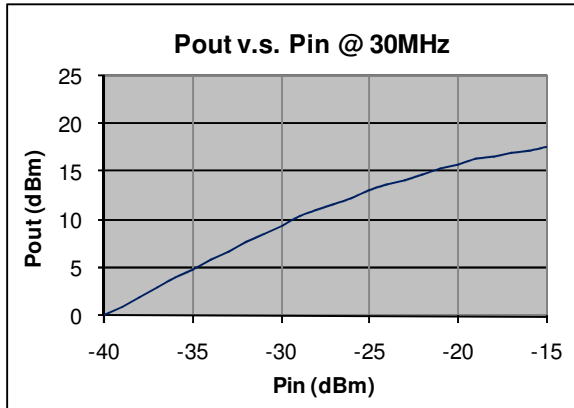
Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ω, V_{supply} = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	30		9000
Gain (S ₂₁) f = 30MHz	dB		40.0	
f = 4500MHz	dB		40.4	
f = 9000MHz	dB		38.7	
Gain Flatness	dB		±1.7	
Output Power P _{1dB}	dBm		+14	
Saturated Output Power P _{Sat}	dBm		+17	
Output Third Order Intercept IP3	dBm		+26	
Noise Figure	dB		5.3	6.5
Reverse Isolation (S ₁₂) @4500MHz	dB		-50	
VSWR-Input (S ₁₁)	ratio:1	1.6@30MHz	1.2@4500MHz	1.6@9000MHz
VSWR-Output (S ₂₂)	(unitless)	1.6@30MHz	1.3@4500MHz	1.1@9000MHz
DC Power Supply - voltage	V		12	15
DC Power Supply - current	mA		150	180
Operating Temperature	°C	-40		+85
Size (RF/DC feedthrough excluded)	Inch	1.79 (L) x 1.10 (W) x 0.45 (H)		
Weight	Oz	1.4		

Typical Performance @+25 °C



Typical Performance @+25 °C



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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
Supply Voltage	+25V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline

