

EPA Series

50 – 6000MHz RF Amplifier

Features

- Frequency Range: 50-6000MHz
- Gain: 37dB
- P_{1dB}: +18dBm
- OIP3: +33dBm
- Noise Figure: 5dB (typ.)
- DC Power: 12V to 15V @ 180mA
- SMA-female

Performance measured at 3000MHz

Description

EPA-240T is a 37dB gain RF Amplifier, with frequency range of 50 MHz to 6000MHz.

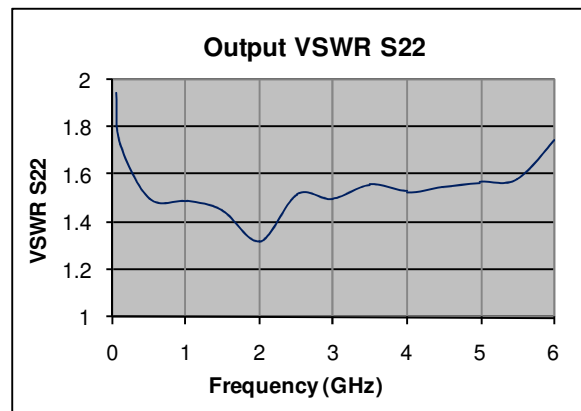
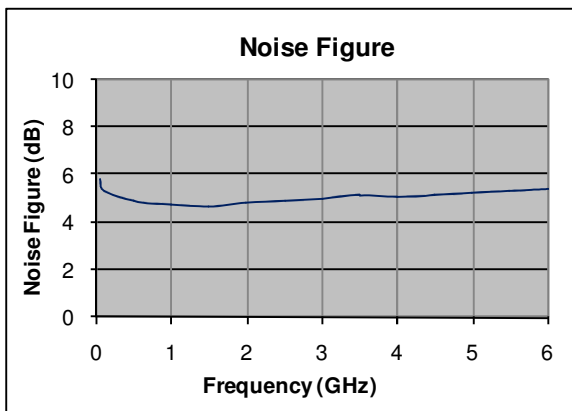
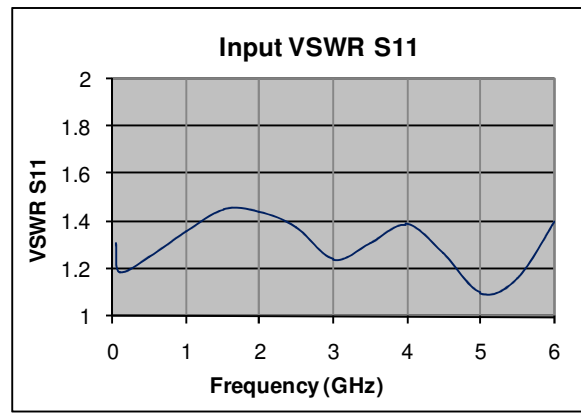
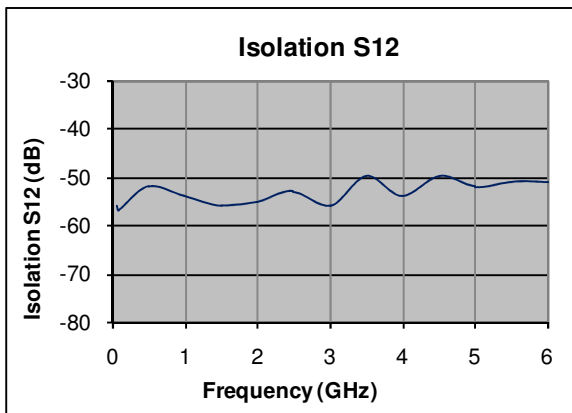
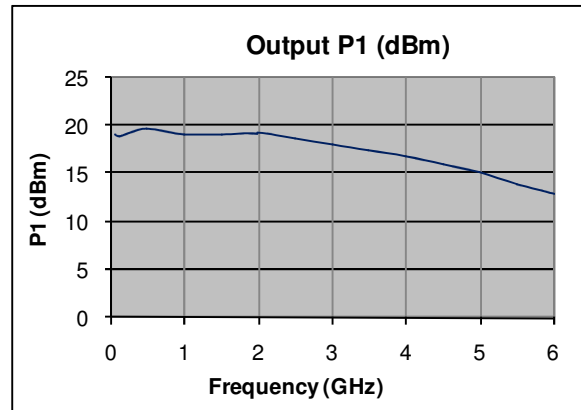
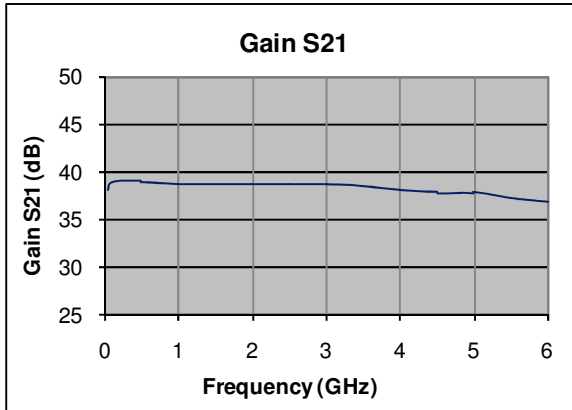
Photo



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

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	50		6000
Gain (S ₂₁) f = 50MHz	dB		38.0	
f = 3000MHz	dB	37.0	38.5	
f = 6000MHz	dB		36.8	
Gain Flatness	dB		±1.2	±1.5
Output Power P _{1dB} @3000MHz	dBm		+18	
Saturated Output Power P _{Sat}	dBm		+20	
Output Third Order Intercept IP3	dBm		+33	
Noise Figure	dB		5.0	6.0
Reverse Isolation (S ₁₂) @3000MHz	dB		-50	
VSWR-Input (S ₁₁)	ratio:1	1.3@50MHz	1.3@3000MHz	1.4@6000MHz
VSWR-Output (S ₂₂)	(unitless)	2.0@50MHz	1.5@3000MHz	1.8@6000MHz
DC Power Supply - voltage	V		12	15
DC Power Supply - current	mA		180	220
Operating Temperature	°C	-40		+85
Size and Weight	Inch/Oz	1.79 (L) x 1.10 (W) x 0.45 (H)/1.4		

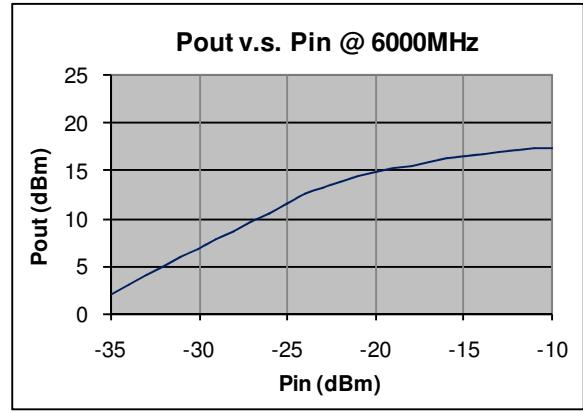
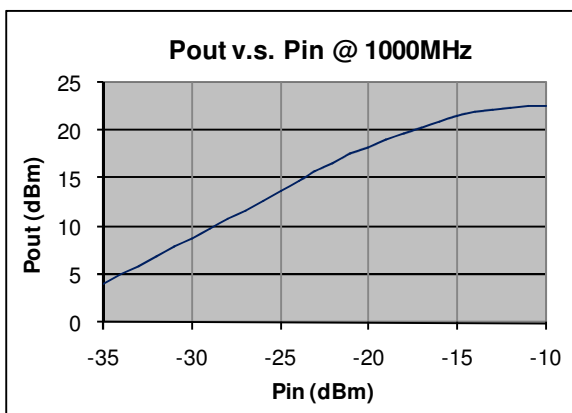
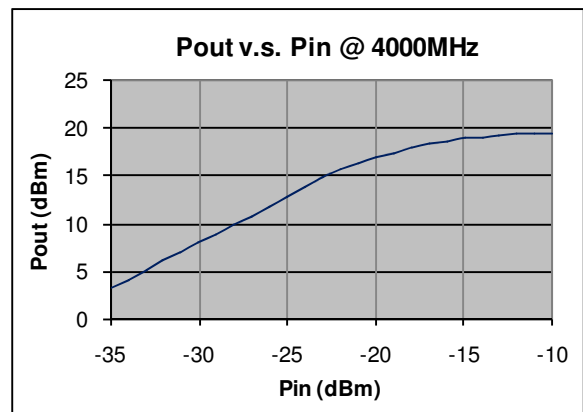
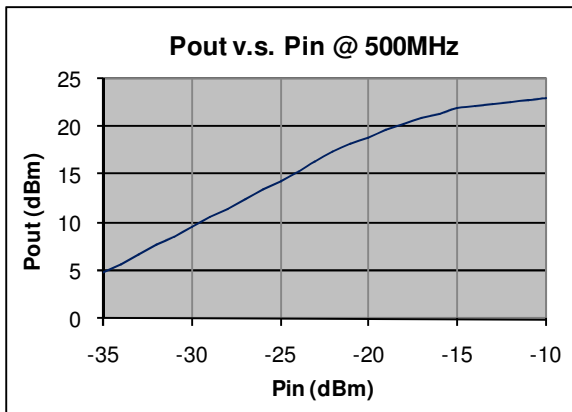
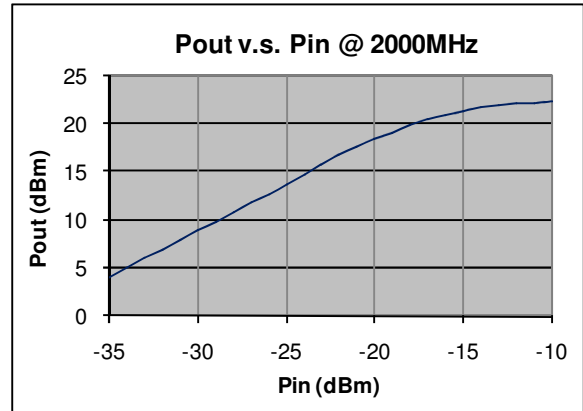
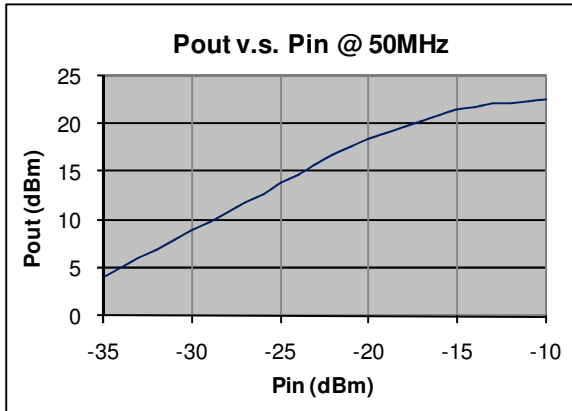
Typical Performance @+25 °C



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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

